Validated ANTIBODY GUIDE

OVER 40,000
VALIDATED ANTIBODIES

ASPIRE TO SUCCEED

AntibodyGenie

HIGH QUALITY VALIDATED ANTIBODIES

ABOUT ANTIBODY GENIE

Antibody Genie is a proprietary range of antibodies developed by Reagent Genie, a global life science reagents company based in London and Dublin.

Founded by Colm Ryan PhD and Seán Mac Fhearraigh PhD, our goal is to provide you with premium quality antibodies along with excellent technical and logistics support, so you can maximise your success.

COLM RYAN PhD
CEO & co-founder of Reagent Genie

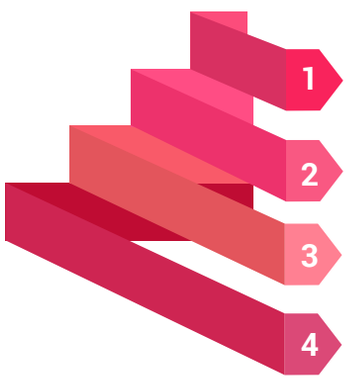
SEÁN MAC FHEARRAIGH PhD CTO & co-founder of Reagent Genie

Maximum Support & Guarantee

Antibody Genie provides excellence in support to all our customers!

Not only do we provide you with application based support before, during and after your experiments, but on those rare occasions when problems arise, we have a defined series of customer-centric steps to ensure that you are happy with our products.

So, don't worry, we also offer a 100% money-back guarantee should our products not perform as specified .



- Technical support: email, video, phone
- Troubleshooting
- Replacement kit
- 100% Money-back guarantee

Rapid Global Delivery

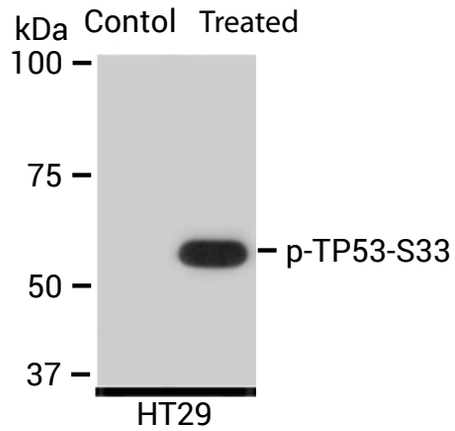
Whether you are served by one of our trusted local distributors or are part of our direct sales network, we endeavour to ship your products to you on-time, every time!

Contact us 24/7 on hello@antibodygenie.com to find our shipping times to your laboratory.

ANTIBODY TECHNOLOGIES

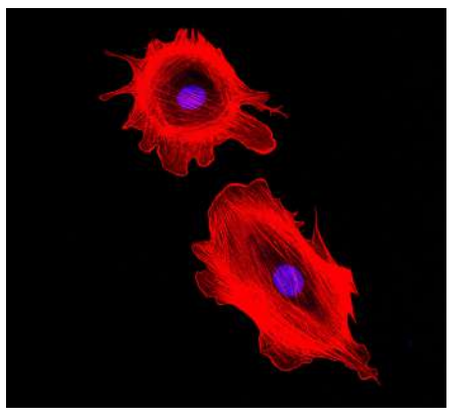
Our high quality validated antibodies can be used in a variety of techniques such as: ELISA, Western Blot, Flow Cytometry, Immunofluorescence (IF), Immunohistochemistry (IHC), ChIP & ChIP-seq.

Validated Western Blot Antibodies



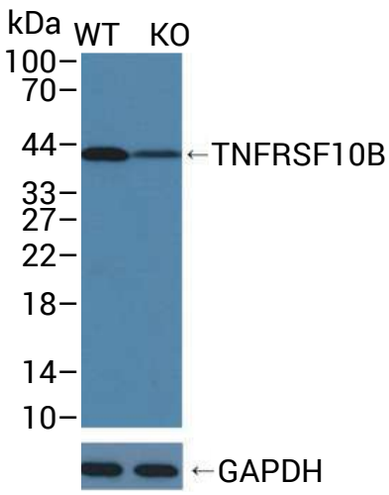
WB: Anti-phospho-p53-S33

Validated Immunofluorescence (IF) Antibodies



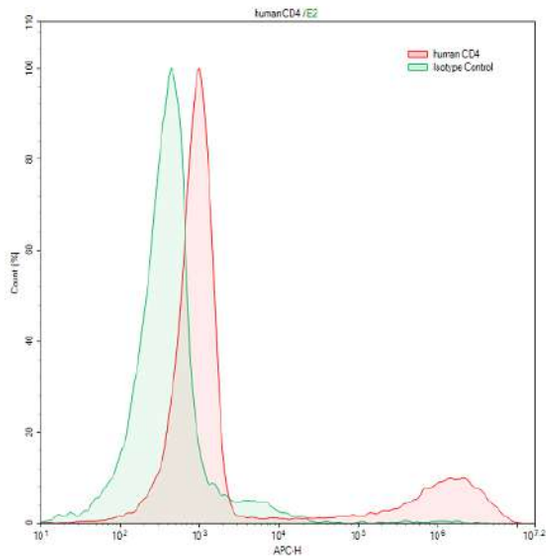
IHC: Anti-Actin

CRISPR Knockout Validated Antibodies



WB: Anti-TNFRSF10B

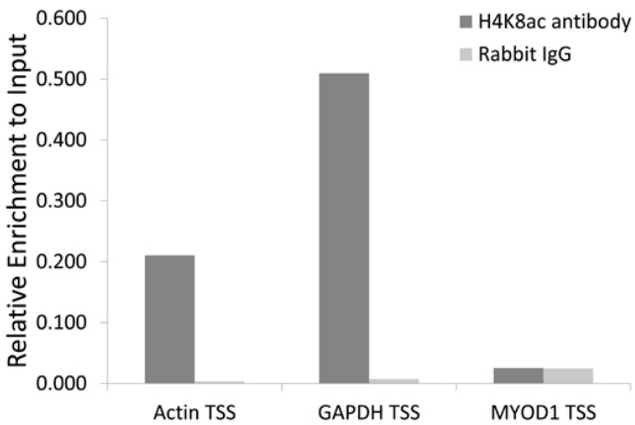
Validated Flow Cytometry(FC) Antibodies



FC: Anti-CD4 APC

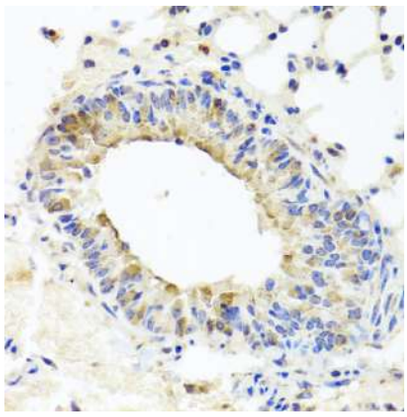
VALIDATED ANTIBODY DATA

Validated Chromatin Immunoprecipitation (ChIP) Antibodies



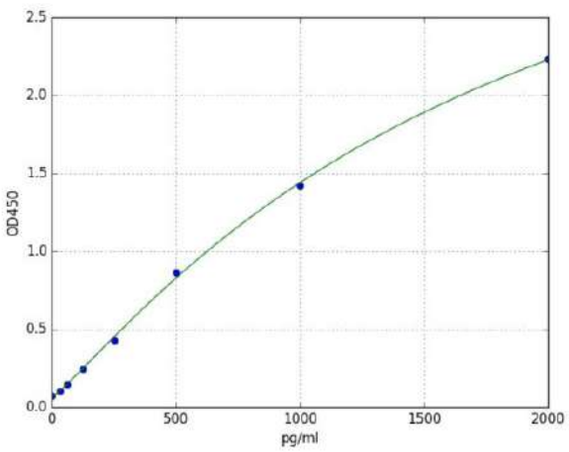
ChIP: Anti-Acetyl-Histone H4-K8

Validated IHC Antibodies



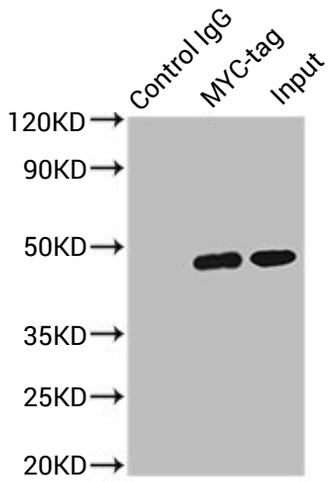
IHC: Anti-CA125

Validated ELISA Antibodies



ELISA: Anti-IL-4

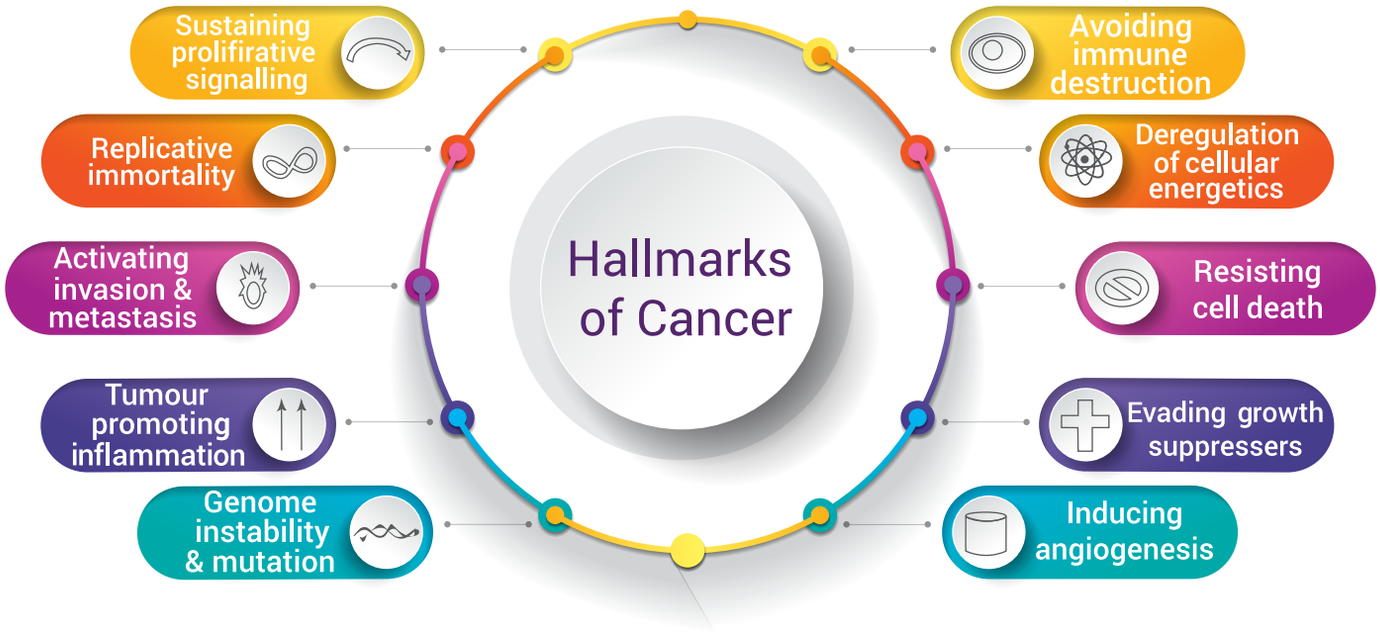
Validated Secondary & Tag Antibodies



WB: Anti-MYC tag

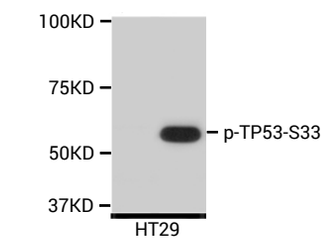
CANCER

Cancer is defined as a group of diseases involving abnormal cell growth. During cancer development, the body's cells begin to divide without stopping and eventually spread to the surrounding tissue.The hallmarks of cancer, as defined by Douglas Hanahan and Robert A. Weinberg, comprise of ten biological capabilities acquired during the multistep development of human tumours. These have been recently updated to include abnormal metabolic pathways, inflammation, genomic instability and immune system evasion.

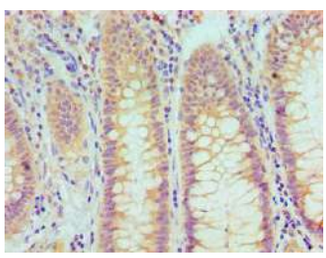


TOP TARGETS

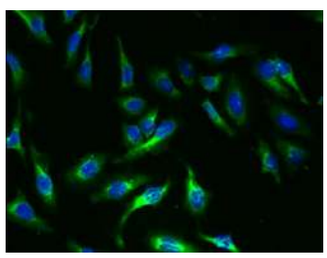
p53	ALK	IGF
AKT1	EGFR	PDL-1
ERK1 | Phospho-ERK1	TGFb	BCL-2



WB: Anti-phospho-p53-S33



IHC: anti-p53



IF: anti-TSHR

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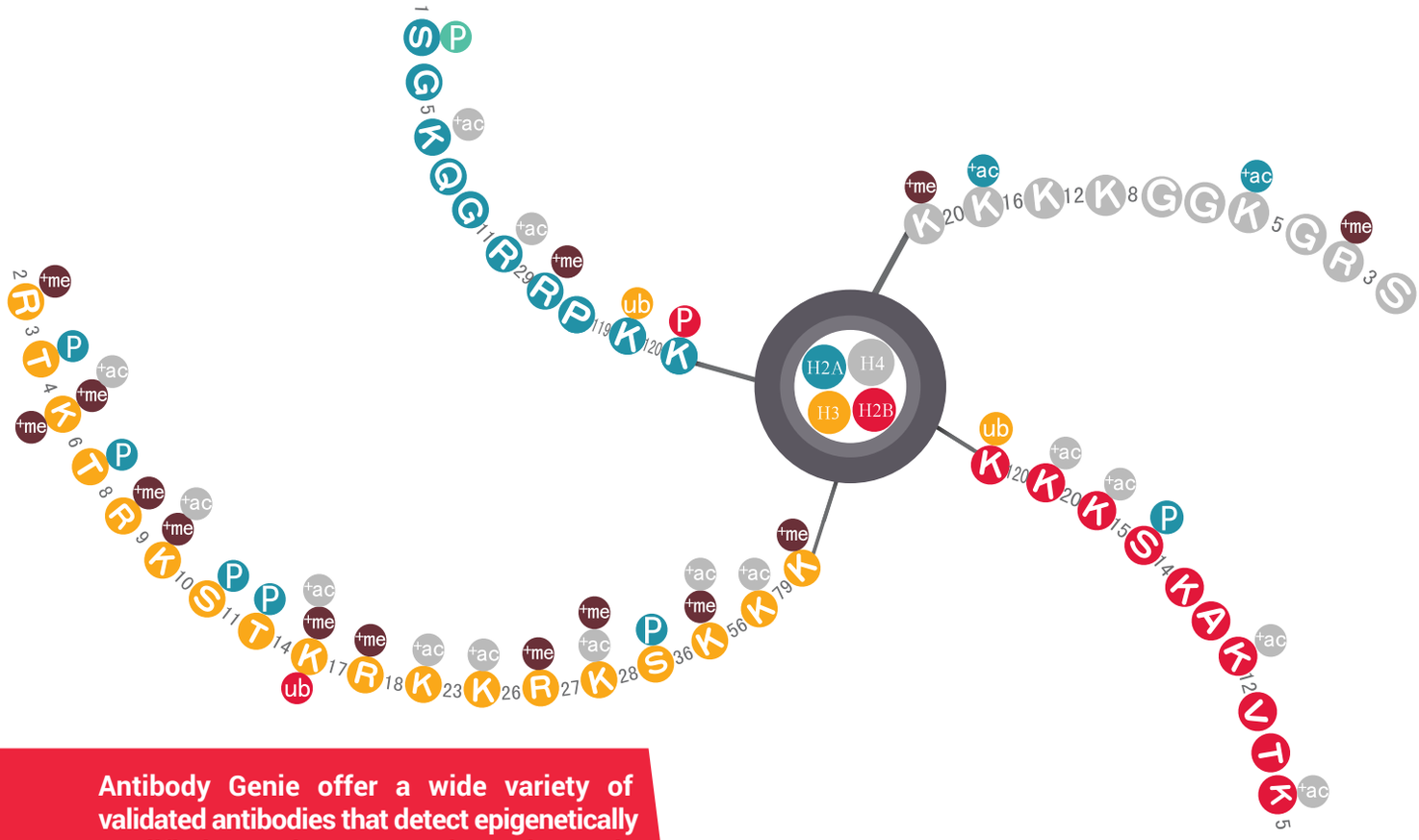

Antibody Genie offer a wide variety of validated antibodies that detect epigenetically modified proteins. Key epigenetic marks include:

- **Phosphorylation**
- **Acetylation**
- **Methylation**
- **ChIP grade antibodies**

Epigenetic modifications include (but are not limited to) DNA methylation, acetylation, methylation and phosphorylation of histone proteins. These can alter chromatin structure and regulate gene expression.

TOP TARGETS

Histone H2A | H2B | H3 | H4	**p53 | Ac-p53 | phopho-p53**
H2A & H2B | Ac | Me | Phospho	**PPARα & PPARγ**
H3 & H4 | Ac | Me | Phospho	**STAT1 - STAT6**
SIRT1 - SIRT7	**GATA1 - GATA6**
HDAC1 - HDAC9	**DNMT1 - DNMT3**

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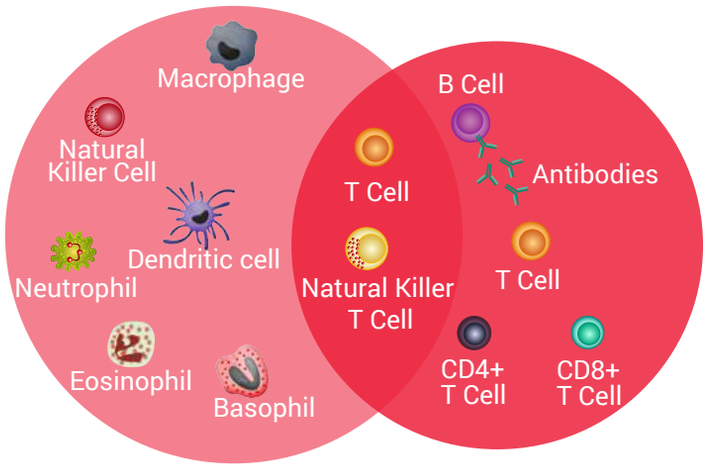
IMMUNOLOGY AND INFECTION

The immune system protects us from infection through 2 lines of defence, the innate and adaptive immune system. The immune system is highly regulated and balanced. Perturbations can result in disease or contribute to disease development.

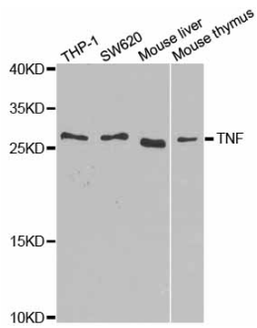
Dysregulation alters the way our immune system functions, having implications in:

- **Autoimmunity**
- **Allergies**
- **Asthma**
- **Cancer**
- **Transplants and vaccines**
- **Cardiovascular and metabolic diseases.**

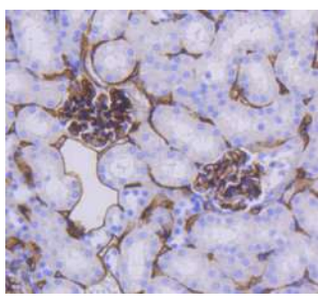


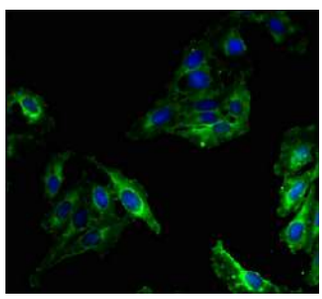
TOP TARGETS

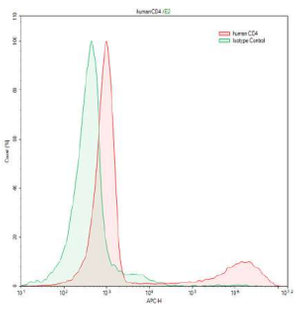
Interleukin-1 (IL-1) to IL-39	**IDO1 & IDO2**
Interleukin Receptors	**TLR1 - TLR10**
TNF-alpha	**PD-1**
CD3 | CD4 | CD8 | CD20 | CD56	**CTLA-4**
CD274/PD-L1	**IFNα | IFNβ | IFNγ | IFNλ**



WB: anti-TNF alpha


IHC: anti-CD34


IF : anti-MPO


FC : Anti-CD4 APC

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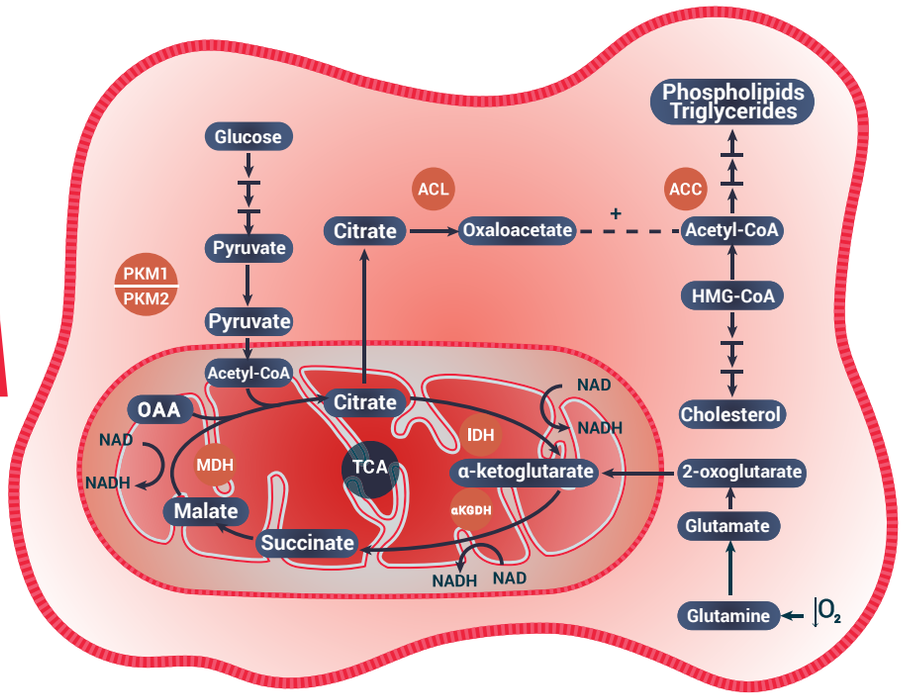
METABOLISM

Metabolism is the sum of biochemical processes in living organisms that either produce or consume energy. Alterations in metabolic processes can be identified in many common human diseases such as cancer, diabetes, obesity and heart disease.

Metabolism also plays an important role in cell signalling and provides the substrates necessary for post-translational modifications responsible for the regulation of protein trafficking, localisation and enzyme activity.



TOP TARGETS

IDH1 & IDH2	MDH1 & MDH2
ACC1 & ACC2	IDO & TDO
ADH1 - ADH8	PKM
LEPR	HIF-1 & SREBP
LDH	GLUT1 - GLUT4

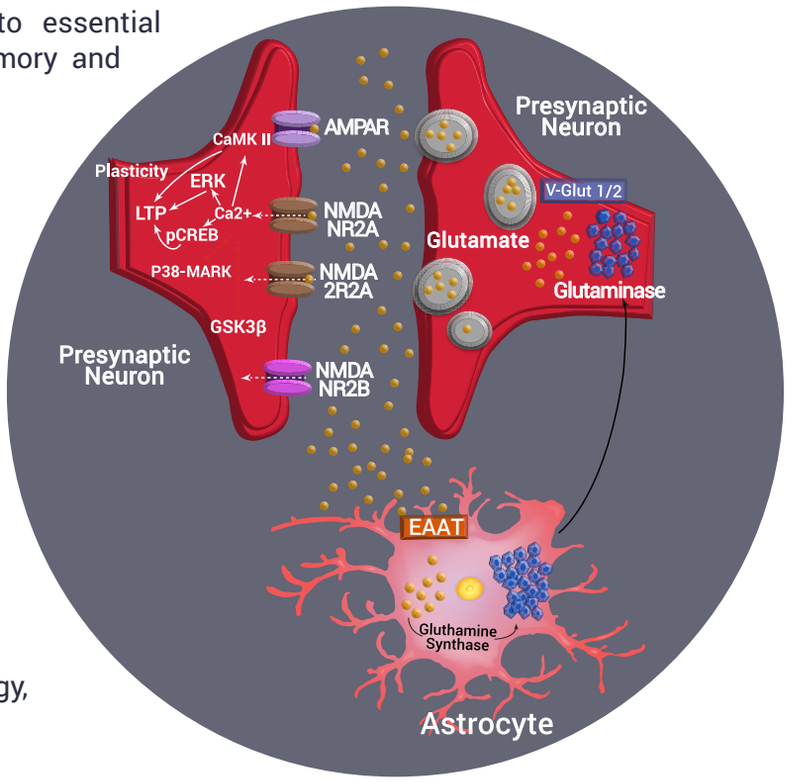
NEUROSCIENCE

Neuroscience investigates the complex processes of the nervous system enabling investigation into essential functions such as such as movement, memory and learning.

Medical applications of neuroscience research encompass 3 key areas.

1. **Synapses, cognition and behaviour.**
2. **Neurodegeneration, neuroprotection and neurorepair.**
3. **Neuropsychiatry and neurodevelopmental disorders.**

Many neurological disorders under investigation combine a variety of different disciplines such as immunology, biochemistry, pharmacology, physiology and psychology.



NMDA signalling pathway

TOP TARGETS

GFAP	**GAD65**
APP	**GFP**
BDNF	**GPCRs**
NGF	**NFL**
NeuN/RBFOX3	**NOS**

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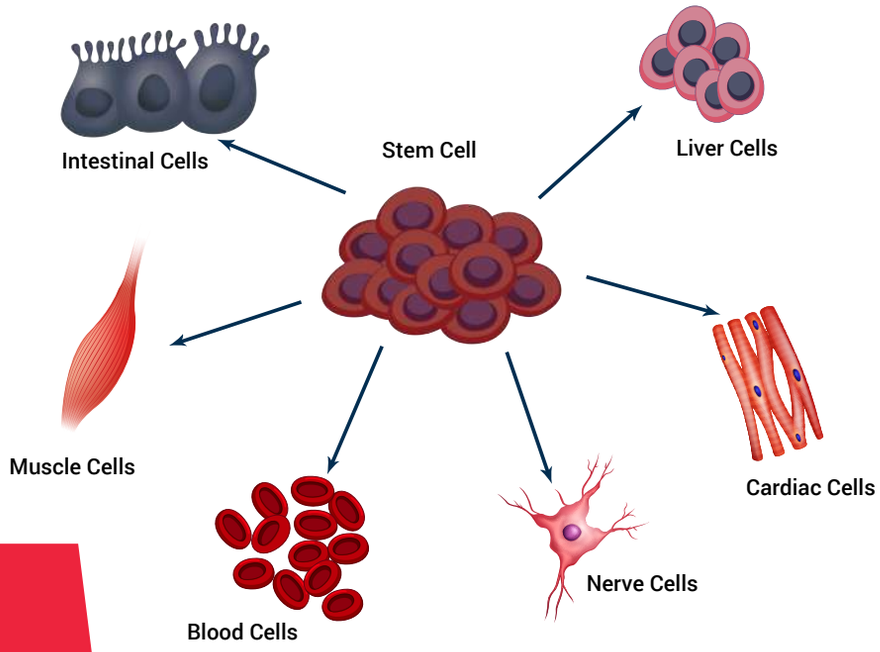
STEM CELLS AND DEVELOPMENTAL BIOLOGY

Stem cells are multipotent cells with the ability to differentiate into a multitude of cell types. Developmental biology primarily focuses on how genes regulate cell growth and differentiation from stem cells to the formation of tissues and organs. Human embryonic stem cells serve as an unlimited source for cells and as a result of this offer great therapeutic potential.



Key areas of stem cells research include:

- **Hematopoietic Stem Cells**
- **Cardiac Stem Cells**
- **Cancer Stem Cells**
- **Neuronal Stem Cells**

TOP TARGETS

NANOG	**CD34 | CD133 | CD56 | CD105 | CD271**
HOXA1 - HOXA6	**SSEA1/FUT4**
OCT4/OCT3/POU5F1	**Podocalyxin/TRA-1-60**
SOX1 - SOX10	**Nestin**
CBX2 - CBX8	**KIT/SCF-R**

SPECIES SPECIFIC VALIDATED ANTIBODIES

Horse Validated Antibodies

Goat Validated Antibodies

Cat Validated Antibodies

Rabbit Validated Antibodies

Dog Validated Antibodies

Sheep Validated Antibodies

Hamster Validated Antibodies

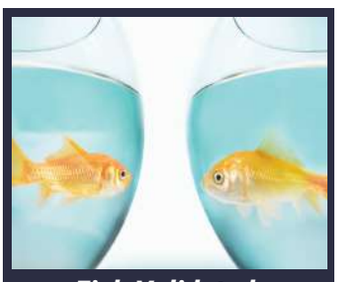
Mouse Validated Antibodies

Guinea Pig Validated Antibodies

Monkey Validated Antibodies

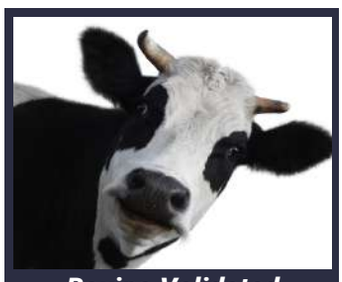
Bird Validated Antibodies

Porcine Validated Antibodies



Fish Validated Antibodies

Plant Validated Antibodies



Bovine Validated Antibodies

Rat Validated Antibodies

Chicken Validated Antibodies

Human Validated Antibodies

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