MÉDIMABS
ANTIBODY SPECIALIST

Product datasheet

SUBSTANCE P / HRP BISPECIFIC MONOCLONAL ANTIBODY (P4C1)

SKU: 1024

2 mL

OVERVIEW

Clonality:
Chimeric Monoclonal

Host:
Rat, Mouse

Reactivity:
Human, predicted all mammals, crab, pigeons

Application:
IHC, ELISA

Target:
Substance P

Target background:
This antibody is a bispecific monoclonal antibody capable of simultaneously recognize the horseradish peroxidase (HRP) and Substance P. Bi-specific monoclonal antibodies have been successfully used in one step immunocytochemistry and immuno-dot assays. These results demonstrated that bispecific antibodies can be applied in quick and simple staining procedures and provide intense immunostaining. The P4C1 antibody has been successfully used in immunoassays and immunohistochemistry. Light and electron micrographs of rat tissue developed using this antibody clearly demonstrate substance P immunoreactive sites with very minimal non-specific background binding.

Target alias:
Substance P, tachykinin, neuropeptide, neurokinin, SP, anti-tachykinin, anti-neuropeptide, anti-neurokinin, anti-SP

Immunogen:
Substance P and Full Lenght HRP

Specificity:
This is a bispecific antibody which recognizes (A) Substance P and (B) Horseradish peroxidase types I, II, VI, IX, X. This antibody recognizes the COOH-terminal end of substance P. It does not recognize Leu- or Met enkephalin, somatostatin or beta-endorphin; cross-reactivity with eledoisin: 5%. It recognizes Substance P in post-mortem tissue of the human brain.

Clone ID:
P4C1

Isotype:
IgG2a / IgG1

Preservative:
0.05% thimerosal

Format:
Lyophilized tissue culture supernatant

Recommend starting dilution:
If reconstituted with deionized water in 2 ml: IHC: 1:100 - 1:200. Optimal dilution has to be determined by the user.

Limitations:
Research Use Only

References:
1.-Ribeiro-da-Silva A - Morphological characterization of substance P-like immunoreactive glomeruli in the superficial dorsal horn of the rat spinal cord and trigeminal su...

2.-Semenenko FM - The production of a "universal developer" for the immunological detection of human IgG and its application in immunodiagnostics.

3.-Suresh MR - Bispecific monoclonal antibodies from hybrid hybridomas.

4.-Suresh MR - Advantages of bispecific hybridomas in one-step immunocytochemistry and immunoassays.

Storage:

Lyophilized antibodies can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage (2 years). To avoid freeze-thaw cycles, reconstituted antibodies should be aliquoted before freezing for long-term (1 year) storage (-80°C) or kept at 4°C for short-term usage (2 months). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made with the assay buffer. After the maximum long-term storage period (2 years lyophilized or 1 year reconstituted) antibodies should be tested in your assay with a standard sample to verify if you have noticed any decrease in their efficacy.

Image: