

Mouse Monoclonal Antibody to

α -Catenin

clone 15D9

Order No.: 0001-100/a-CAT-15D9

Size (μ g) 100

Lot No.: 0001S



02/140307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IP, ICC	102 kDa	A431		recombinant α -catenin

Background and Specificity:

The α -, β - and γ -catenins are cytoplasmic proteins mediating the interaction of Ca^{2+} -dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The N-terminus of α -catenin directly interacts with exon 3 of β -catenin. The C-terminus of α -catenin interacts with the actin filament network.

Mab a-CAT-15D9 specifically recognizes α -catenin in Western blot at 102 kDa and is also suitable for ELISA, immunoprecipitation and immunocytochemistry.

Related Products

mab to b-catenin (N-Term/Exon2)

#0003-100/b-CAT-7D11

mab to b-catenin (Exon3)

#0004-100/b-CAT-9G2

mab to b-catenin (Core)

#0005-100/b-CAT-9G10

mab to b-catenin (C-Term/Exon14)

#0002-100/b-CAT-7D8

mab to b-catenin (C-Term)

#0006-100/b-CAT-10H8

mab to dephospho-b-catenin (aa35-50)

#0051-100/b-CAT-7A7

mab to dephospho-b-catenin (aa27-37)

#0052-100/b-CAT-8E4

mab to phospho-b-catenin (pY86)

#0123-100/b-CAT-24E1

mab to phospho-b-catenin (pY654)

#0159-100/b-CAT-1B11

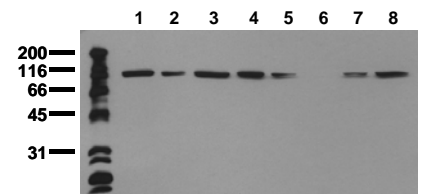
For monoclonal antibodies against LEF, TFF3, and E-, M- and N-Cadherin, please refer to our website at www.nanotools.de

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	lyophilized from 1 ml 2x PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H_2O (15 min, RT).
Stability:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C . Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

Positive Control:	#0831: Cell lysate from untreated A431 cells.
Immunoblotting:	0.5 $\mu\text{g}/\text{ml}$ for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
Immunoprecipitation:	use at 1- 10 μg per 10^6 vanadate-treated A431 cells
Immunocytochemistry:	use at 0.1-1 $\mu\text{g}/\text{ml}$; mab a-CAT-15D9 may tolerate formaldehyd
ELISA:	use at 0.05 $\mu\text{g}/\text{ml}$

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.



Detection of endogenous alpha catenin

Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab a-Cat-15D9 (0.5 $\mu\text{g}/\text{ml}$) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2