Mouse Anti-Human SERPINB5 Monoclonal Antibody

Cat. No. CAB-865MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Mouse
Antigen Information	Serine (or cysteine) proteinase inhibitor clade B (ovalbumin) member 5, also known as Maspin, is a tumor suppressor protein of serine proteinase inhibitor family. It plays an essential role in embryonic development through critical roles in cell adhesion. Also, it is present in normal breast and prostatic epithelial cells but downregulated in the rspective carcinomas.
Immunogen	Recombinant Maspin (1-375aa) purified from E. coli.
Isotype	Mouse IgG2b heavy chain and light chain.
Clone	Anti-human Maspin mAb, clone AT2N6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Maspin protein.
Concentration	1mg/ml.
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Application	ELISA, WB, Immunofluorescence.

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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Usage	The antibody has been tested by ELISA, Western blot analysis and Immunofluorescence analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000 ~ 2000. Recommended starting dilution is 1:1000.
Western Blot Analysis	Cell lysates of HeLa(20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Maspin (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Immunofluorescence Analysis	Immunofluorescence of human HeLa cells stained with PI (Red) and monoclonal anti-Maspin antibody (1:500) with Alexa 488 (Green).

GENE INFORMATION

Gene Name	SERPINB5 serpin peptidase inhibitor, clade B (ovalbumin), member 5 [Homo sapiens]
Synonyms	serpin peptidase inhibitor, clade B (ovalbumin), member 5; PI5; maspin; SERPINB5; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5; protease inhibitor 5 (maspin); Maspin; Protease inhibitor 5
Gene ID	5268
mRNA Refseq	NM_002639
Protein Refseq	NP_002630

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MIM	154790
UniProt ID	P36952
Chromosome Location	18q21.3
Pathway	p53 signaling pathway
Function	serine-type endopeptidase inhibitor activity; protein binding
PDB rendering based on 1wz9.	

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