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SERPINA3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1978a

Product Information

Application	WB, IHC, FC, E
Primary Accession	P01011
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5G3C11
Isotype	IgG1
Calculated MW	47651
Description	The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease.
Immunogen	Purified recombinant fragment of human SERPINA3 (AA: 279-432) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	12
Other Names	Alpha-1-antichymotrypsin, ACT, Cell growth-inhibiting gene 24/25 protein, Serpin A3, Alpha-1-antichymotrypsin His-Pro-less, SERPINA3, AACT
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SERPINA3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SERPINA3

Synonyms	AACT
Function	Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.
Cellular Location	Secreted.
Tissue Location	Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.

Background

DNAL4 is a component of the dynein motor complex

References

1. Cerebrovasc Dis. 2010;29(1):68-72. 2. Cerebrovasc Dis. 2007;23(1):46-9.

Images

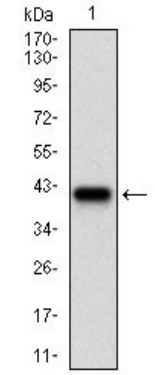


Figure 1: Western blot analysis using SERPINA3 mAb against human SERPINA3 (AA: 279-432) recombinant protein. (Expected MW is 42.3 kDa)

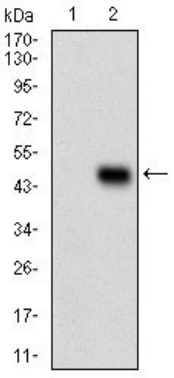


Figure 2: Western blot analysis using SERPINA3 mAb against HEK293 (1) and SERPINA3 (AA: 279-432)-hIgGFc transfected HEK293 (2) cell lysate.

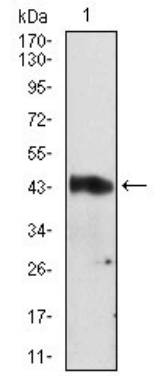


Figure 3: Western blot analysis using SERPINA3 mouse mAb against A549 cell lysate.

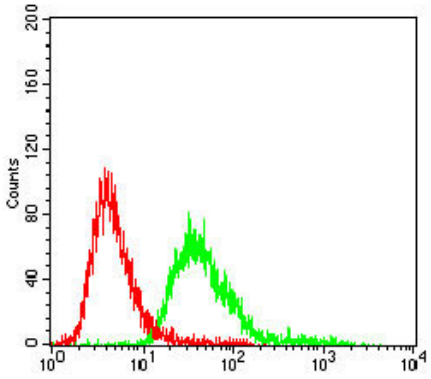


Figure 4: Flow cytometric analysis of A549 cells using SERPINA3 mouse mAb (green) and negative control (red).

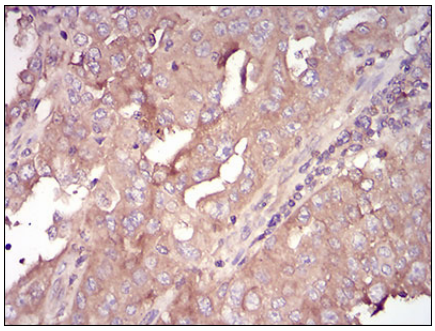


Figure 5: Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using SERPINA3 mouse mAb with DAB staining.

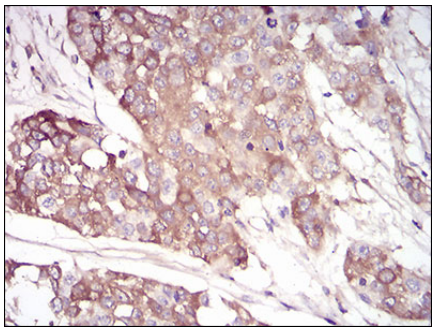


Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using SERPINA3 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.