SERPINA1 Monoclonal Antibody

Catalog Number:E-AB-27020

Note: Centrifuge before opening to ensure complete recovery of vial contents.

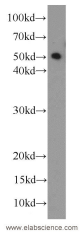
Description

Reactivity	Human,Rat
Immunogen	Fusion protein of Alpha-1-Antitrypsin
Host	Mouse
Isotype	IgG1
Clone	Clone:447
Purification	Protein G purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 50% glycerol, PH7.3

Applications Recommended Dilution

WB 1:5000-1:20000, IHC 1:500-1:1000, IF 1:20-1:200

Data



Western Blot analysis of HepG2 cells using SERPINA1 Monoclonal Antibody at dilution of 1:20000

Observed Mw:51kDa

Calculated Mw:418aa, 47kDa

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

Background

SERPINA1 is the gene for a protein called alpha-1-antitrypsin (AAT),which is a serine protease inhibitor whose targets include elastase,plasmin,thrombin,trypsin,chymotrypsin,and plasminogen activator. AAT is a glycoprotein synthesized primarily by hepatocytes,with smaller amountssynthesized by intestinal epithelial cells,neutrophils,pulmonary alveolar cells and macrophages. AAT is the most abundant,endogenous serine protease inhibitor in blood circulation and it has been implicated in regulating vital fluid phase biological events such as blood coagulation,fibrinolysis,complement activation,apoptosis,reproduction,tumor progression and inflammatory response. The primary function of AAT is thought to be the inactivation of neutrophil elastase and other endogenous serine proteases. Defects in SERPINA1 can cause emphysema or liver disease.

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