

CYB561D2 Polyclonal Antibody

Catalog NumberPA5-18098

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	<div>Tested Applications</div> <div>Dilution *</div> <div>Western Blot (WB)</div> <div>1-3 µg/mL</div> <div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Class	Polyclonal		
Type	Antibody		
Immunogen	Synthetic peptide sequence (VSNAYLYRKRIQP) corresponding to the C-terminus amino acids of CYB561D2		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with bovine, canine, mouse and rat based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 16,000.

Background/Target Information

CYB561D2 (Cytochrome b561 domain-containing protein 2), also known as putative tumor suppressor protein 101F6, is a 222 amino acid highly hydrophobic protein that contains six membrane spanning domains. Localized to endosomes and endoplasmic reticulum of the perinuclear region, CYB561D2 contains 2 heme-binding sites, through which it reduces ferric ions. CYB561D2 is ubiquitously expressed, with highest levels in lung, liver and kidney. Though expression of CYB561D2 is abundant in normal lung bronchial epithileal cells, CYB561D2 is absent in most lung cancers. The gene encoding CYB561D2 maps to human chromosome 3p21.3, a region that is prone to genetic alterations and is associated with frequent and early allele loss in many human cancers. Exogenous expression of CYB561D2 leads to the induction of caspase-independent apoptotic and autophagic pathways, resulting in the synergistic killing of tumor cells. This suggests an important role for CYB561D2 as a therapeutic intervention in cancer treatment.

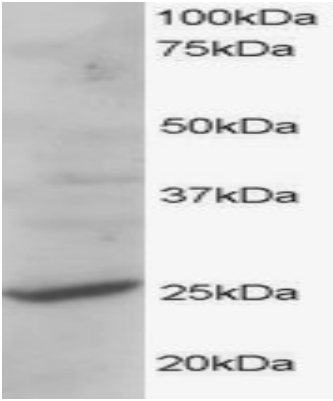
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Product Images For CYB561D2 Polyclonal Antibody



**CYB561D2 Antibody (PA5-18098) in WB**  
Western blot analysis of CYB561D2 using CYB561D2 Polyclonal Antibody (Product # PA5-18098) (1 µg/mL) in staining of human liver lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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