

STUB1 Polyclonal Antibody

Catalog Number PA5-18011

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	5-6 µg/mL
Type	Antibody	Western Blot (WB)	0.3-1 µg/mL
Immunogen	Synthetic peptide sequence (DAFISENGWVEDY) corresponding to the C-terminus amino acids of STUB1	* 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.	
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 64,000.

Background/Target Information

A recently identified protein, termed carboxyl terminus of hsc70-interacting protein (CHIP), has been shown to interact both with the constitutive form of hsc70 and the stress inducible form, hsp70. This novel 35 kDa cytoplasmic protein has been shown to be highly expressed in striated muscle in vivo. Additional studies have shown that this protein is expressed over a broad range of cultured tissues. Through immunoprecipitation experiments, CHIP has been shown to directly bind to the carboxyl terminus of hsc70 and hsp70 where it decreases ATPase activity and reduces overall chaperone efficiency. CHIP has also been identified as an important protein in the ubiquitin-proteasome system. CHIP contains a U-box domain and acts as an E3 ubiquitin-ligase in conjunction with hsc70 and hsp90.

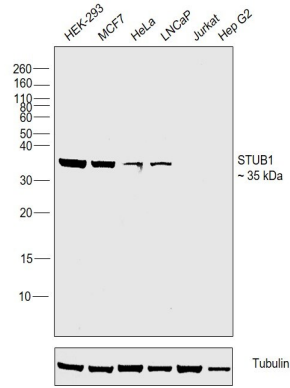
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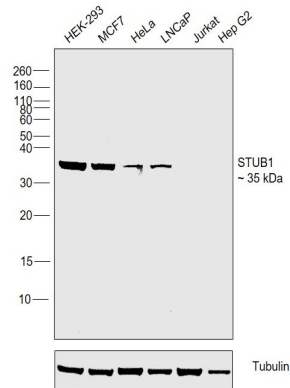
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Product Images For STUB1 Polyclonal Antibody



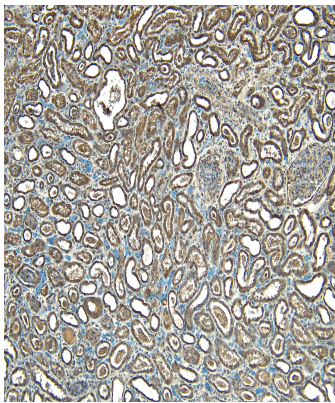
STUB1 Antibody (PA5-18011)

Antibody specificity was demonstrated by detection of differential basal expression of the target across the cell lines tested owing to their inherent genetic constitution. Relative expression of STUB1 was observed in HEK-293, MCF7 cell line in comparison to HeLa, LNCaP, Jurkat and Hep G2 which has little or no expression of STUB1 using Anti-STUB1 Polyclonal Antibody (Product # PA5-18011) in Western Blot. {RE}



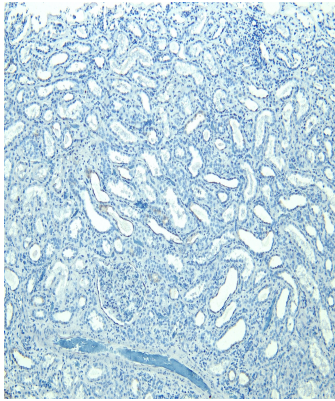
STUB1 Antibody (PA5-18011) in WB

Western blot was performed using Anti-E3 ubiquitin-protein ligase CHIP (STUB1) Polyclonal Antibody (Product # PA5-18011) on whole cell extracts (30 µg lysate) of HEK-293 (Lane 1), MCF7 (Lane 2), HeLa (Lane 3), LNCaP (Lane 4), Jurkat (Lane 5) and Hep G2 (Lane 6) and 35 kDa band corresponding to STUB1 was observed except in Jurkat and Hep G2 as reported in literature. Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by Rabbit anti-Goat IgG Heavy Chain Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



STUB1 Antibody (PA5-18011) in IHC (P)

Immunohistochemistry (PFA fixed) analysis of STUB1 using STUB1 Polyclonal Antibody (Product # PA5-18011) (5 µg/mL) in staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



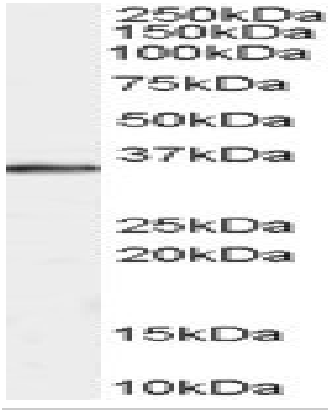
STUB1 Antibody (PA5-18011) in IHC (P)

Negative Control for STUB1 Polyclonal Antibody (Product # PA5-18011), showing immunohistochemical staining of paraffin embedded Human Kidney, with no primary antibody.

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STUB1 Antibody (PA5-18011) in WB

Western blot analysis of STUB1 using STUB1 Polyclonal Antibody (Product # PA5-18011) (0.3 µg/mL) in staining of Human Muscle lysate (RIPA buffer, 35 µg total protein per lane). Detected by chemiluminescence.

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