

SMURF1 Polyclonal Antibody

Catalog NumberPA5-11944

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	KLH conjugated synthetic peptide between 711-740 amino acids from the C-terminal region of human SMURF1		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	Lot-specific		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

* 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.

Product specific information

This antibody is predicted to react with mouse and Xenopus based on sequence homology.

Background/Target Information

Members of the transforming growth factor-beta (TGFB) family signal through type I and type II serine/threonine-kinase receptors, which in turn activate the SMAD signaling pathway. Bone morphogenetic protein (BMP) receptors target SMAD1, SMAD5, and SMAD8, whereas receptors for activin and TGFB (e. g., ACVR1 and TGFBR1, respectively) target SMAD2 and SMAD3. Phosphorylation of these receptor-regulated SMADs induces their association with the common-partner SMAD, SMAD4. Smurf1, a HECT domain E3 ubiquitin ligase, regulates cell polarity and protrusive activity and is required to maintain the transformed morphology and motility of a tumor cell. Atypical protein kinase C-zeta (PKC2), an effector of the Cdc42/Rac1-PAR6 polarity complex, recruits Smurf1 to cellular protrusions, where it controlled the local level of RhoA. Smurf1 thus links the polarity complex to degradation of RhoA in lamellipodia and filopodia to prevent RhoA signaling during dynamic membrane movements.

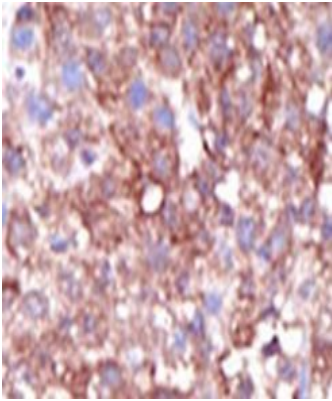
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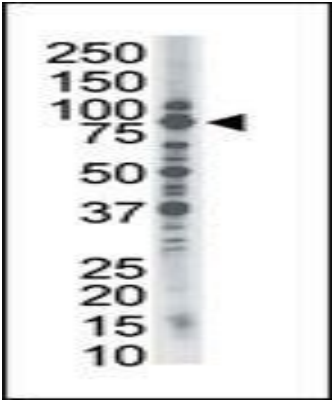
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Product Images For SMURF1 Polyclonal Antibody



SMURF1 Antibody (PA5-11944) in IHC
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human cancer tissue using a SMURF1 polyclonal antibody (Product # PA5-11944), followed by HRP-conjugated secondary antibody and DAB staining.



SMURF1 Antibody (PA5-11944) in WB
Western blot analysis of SMURF1 using a SMURF1 polyclonal antibody (Product # PA5-11944) in HL-60 cell lysate.

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