

RABBIT ANTI-SMURF1 POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB10005	QUANTITY:	100µg
LOT NUMBER:		CONCENTRATION:	0.25 mg/mL
ALTERNATE NAMES:	Smad ubiquitination regulatory factor 1; Ubiquitin--protein ligase SMURF1	EPITOPE:	Region within aa 700-800
BACKGROUND:	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.		
IMMUNOGEN:	Synthetic peptide from aa 700-800		
APPLICATIONS:	ELISA 1:1,000 Western Blot 1:100~500 Immunohistochemistry 1:50~100 Immunoprecipitation Not Tested Flow cytometry Not Tested Optimal working dilutions must be determined by end user.		
SPECIES REACTIVITY:	Human; not tested in other species.		
FORMAT:	Protein G purified.		
PRESENTATION:	Liquid in phosphate buffer saline, with 0.9% sodium azide as a preservative.		
STORAGE/HANDLING:	Maintain at 2-8°C. For long term storage, freeze in aliquots.		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide
www.chemicon.com • custserv@chemicon.com • techserv@chemicon.com

