

## Datasheet

### SMURF1 monoclonal antibody (M01), clone 1D7

**Catalog Number:** H00057154-M01

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant SMURF1.

**Clone Name:** 1D7

**Immunogen:** SMURF1 (NP\_065162, 165 a.a. ~ 268 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

DSGPGRPLSCFMEEPAPYTDSTGAAAGGGNCRFVES  
PSQDQRLQAQRLRNPDRVRLQTPQNRPHGHQSPEL  
PEGYEQRRTTVQGQVYFLHTQTGVSTWHDPRIP

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IF, IHC-P, IP, S-ELISA, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG2a Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 57154

**Gene Symbol:** SMURF1

**Gene Alias:** KIAA1625

**Gene Summary:** This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. A

similar protein in *Xenopus* is involved in embryonic pattern formation. Alternative splicing results in multiple transcript variants encoding different isoforms. An additional transcript variant has been identified, but its full length sequence has not been determined. [provided by RefSeq]

**References:**

1. BMPR2 Mutation-independent Mechanisms of Disrupted BMP Signaling in IPAH. Barnes JW, Kucera ET, Tian L, Mellor NE, Dvorina N, Baldwin Iii WW, Aldred MA, Farver CF, Comhair SA, Aytakin M, Dweik RA. Am J Respir Cell Mol Biol. 2016 May 17. [Epub ahead of print]
2. Impaired phosphorylation and ubiquitination by P70 S6 kinase (P70S6K) and Smad ubiquitination regulatory factor 1 (Smurf1) promotes Tribbles homolog 2 (TRIB2) stability and carcinogenic property in liver cancer. Wang J, Zhang Y, Weng W, Qiao Y, Ma L, Xiao W, Yu Y, Pan Q, Sun F J Biol Chem. 2013 Oct 2.
3. Smurf1 ubiquitin ligase causes downregulation of BMP receptors and is induced in monocrotaline and hypoxia models of pulmonary arterial hypertension. Murakami K, Mathew R, Huang J, Farahani R, Peng H, Olson SC, Etlinger JD. Exp Biol Med (Maywood). 2010 Jul 1;235(7):805-13.