

## ARG59465 anti-SMURF1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes SMURF1  |
| Tested Reactivity   | Hu, Rat   |
| Predict Reactivity  | Hm  |
| Tested Application  | FACS, ICC/IF, IHC-P, WB   |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | SMURF1  |
| Species             | Human   |
| Immunogen           | Synthetic peptide corresponding to aa. 326-351 of Human SMURF1.<br>(DHNNRTTQFTDPRLLHHIMNHQCQLKE)  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | hSMURF1; SMAD ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1; EC 6.3.2.-; E3 ubiquitin-protein ligase SMURF1 |

### Application Instructions

| Application table | Application   | Dilution        |
|-------------------|---|-----------------|
|                   | FACS  | 1:150 - 1:500   |
|                   | ICC/IF  | 1:200 - 1:1000  |
|                   | IHC-P   | 1:200 - 1:1000  |
|                   | WB  | 0.1 - 0.5 µg/ml |
| Application Note  | IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0).<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |

### Properties

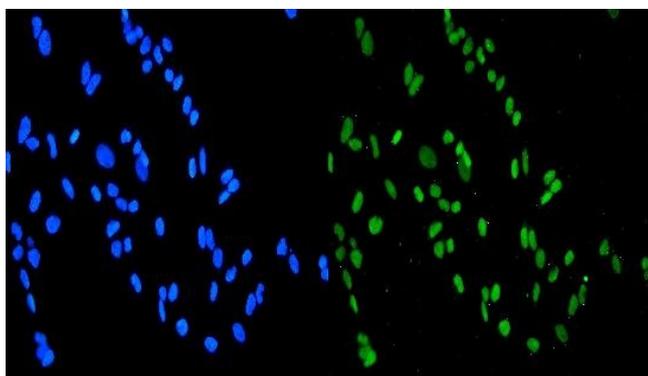
|               |   |
|---------------|---|
| Form          | Liquid  |
| Purification  | Affinity purification with immunogen.   |
| Buffer        | 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 5% BSA. |
| Preservative  | 0.05% Sodium azide  |
| Stabilizer    | 5% BSA  |
| Concentration | 0.5 mg/ml   |

|                     |  |
|---------------------|--|
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

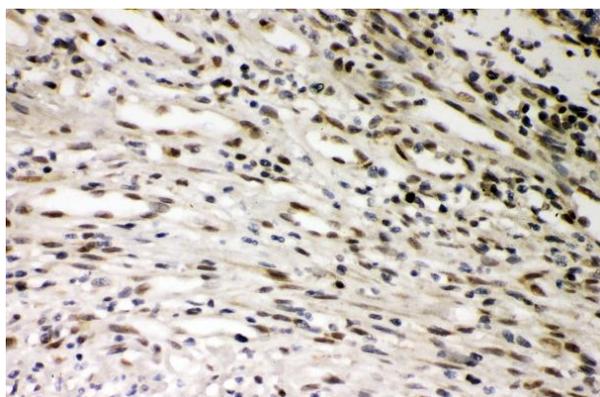
|                       |   |
|-----------------------|---|
| Gene Symbol           | SMURF1  |
| Gene Full Name        | SMAD specific E3 ubiquitin protein ligase 1   |
| Background            | This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. This protein plays a key roll in the regulation of cell motility, cell signalling, and cell polarity. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Dec 2010] |
| Function              | E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway. Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway. Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA. [UniProt]  |
| Calculated Mw         | 86 kDa  |
| PTM                   | Auto-ubiquitinated in presence of NDFIP1 (PubMed:23087404). Ubiquitinated by the SCF(FBXL15) complex at Lys-381 and Lys-383, leading to its degradation by the proteasome. Lys-383 is the primary ubiquitination site. [UniProt]  |
| Cellular Localization | Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. [UniProt]  |

## Images



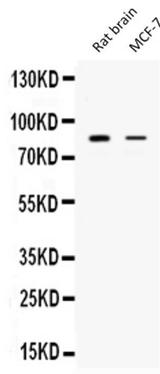
ARG59465 anti-SMURF1 antibody ICC/IF image

Immunofluorescence: HeLa cells were blocked with 10% goat serum and then stained with ARG59465 anti-SMURF1 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



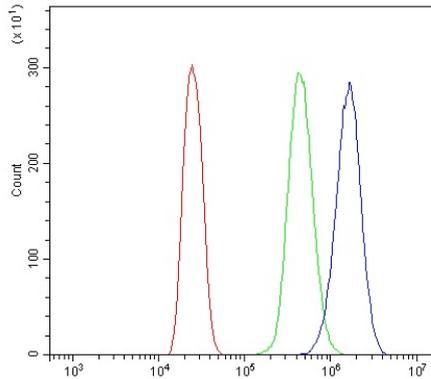
ARG59465 anti-SMURF1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59465 anti-SMURF1 antibody at 1 µg/ml dilution, overnight at 4°C.



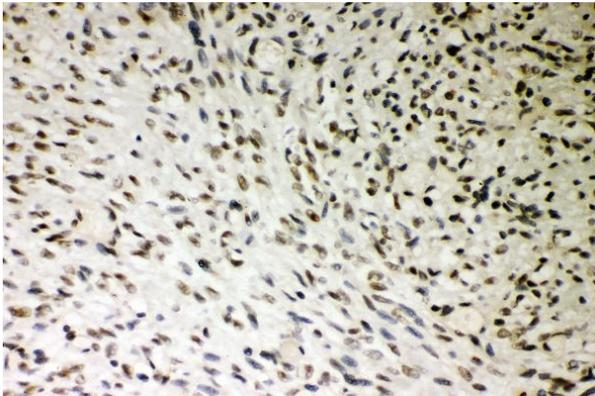
#### ARG59465 anti-SMURF1 antibody WB image

Western blot: Rat brain and MCF-7 whole cell lysates stained with ARG59465 anti-SMURF1 antibody at 0.5  $\mu\text{g}/\text{ml}$  dilution.



#### ARG59465 anti-SMURF1 antibody FACS image

Flow Cytometry: MCF-7 cells were blocked with 10% normal goat serum and then stained with ARG59465 anti-SMURF1 antibody (blue) at 1  $\mu\text{g}/10^6$  cells for 30 min at 20°C, followed by incubation with DyLight<sup>®</sup>488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1  $\mu\text{g}/10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



#### ARG59465 anti-SMURF1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59465 anti-SMURF1 antibody at 1  $\mu\text{g}/\text{ml}$  dilution, overnight at 4°C.