

# Product datasheet for AP11954PU-N

## SMURF 2 (SMURF2) (N-term) Rabbit Polyclonal Antibody

### **Product data:**

#### **Product Type: Primary Antibodies** IHC, WB **Applications: Recommended Dilution:** ELISA 1:1.000. Western blot 1:100 - 1:500. Immunohistochemistry 1:50 - 1:100. **Reactivity:** Human, Mouse Host: Rabbit Isotype: lg **Clonality:** Polyclonal Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human SMURF2. This antibody detects SMURF2 at N-term. Specificity: Formulation: PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid lg fraction **Concentration:** lot specific **Purification:** Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS **Conjugation:** Unconjugated Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid Storage: repeated freezing and thawing. Stability: Shelf life: one year from despatch. Gene Name: SMAD specific E3 ubiquitin protein ligase 2 Database Link: Entrez Gene 66313 MouseEntrez Gene 64750 Human <u>Q9HAU4</u>



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### OriGene Technologies, Inc.

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|                   | SMURF 2 (SMURF2) (N-term) Rabbit Polyclonal Antibody – AP11954PU-N  |
|-------------------|---|
| Background:       | SMURF2, a 748-amino acid ubiquitin E3 ligase that is 83% identical to SMURF1, codes for a C2-<br>WW-HECT domain ubiquitin ligase that associates constitutively with SMAD7. Binding to<br>SMAD7 induces export of SMURF2 and recruitment to the activated transforming growth<br>factor-beta receptor (TGFBR), where it causes receptor and SMAD7 degradation. A strong<br>interaction of second and third SMURF2 WW domains has been identified with SMAD1,<br>SMAD2, and SMAD3, but not SMAD4. Western blot analysis showed that SMURF2 selectively<br>downregulates the transcription of SMAD2 and SMAD1, but not SMAD3. The nuclear<br>SMURF2/phosphorylated SMAD2 interaction is requires TGFB1. |
| Synonyms:         | SMURF 2, SMURF-2  |
| Note:             | Molecular weight: 86195 Da  |
| Protein Families: | Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors  |
| Protein Pathways  | S: Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, TGF-beta signaling pathway, Type I diabetes mellitus, Ubiquitin mediated proteolysis, Viral myocarditis  |

### **Product images:**

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The anti-SMURF2 is used in Western blot to detect SMURF2 in mouse brain tissue lysate.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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