

Applications

Competition ELISA	Western Blot	SPR	Spiked IP	Immunofluorescence	IP-MS	ChIP
Pass			Pass	Pass		

*rAb has been tested for the following applications. See below for the experimental details.

Antibody information

rAb ID: anti-SMURF1-RAB-C449

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *SMURF1* protein under non-denaturing conditions; specificity and affinity tested.

Binder type: rAb **Isotype:** IgG1 **Species:** *Homo sapiens* **Produced in:** *E. coli* **rAb tags:** Avi-tag; no tag

Specificity: reacts with *Homo sapiens* SMURF1 **Epitope:** binds to folded domain amino acids 340-753

Storage conditions: short term – store at 4°C (over 6 months), long term - PBS -20°C or -80°C

Link: <http://recombinant-antibodies.org/binders/anti-SMURF1-RAB-C449>

Antigen information

Protein Name: SMAD specific E3 ubiquitin protein ligase 1

HGNC Symbol: SMURF1 **HGNC ID:** 16807 **Species:** *Homo sapiens*

UniProt AC: Q9HCE7 **UniProt KB:** SMUF1_HUMAN

Protein Sequence:

MSGLNDIFEAQKIEWHEGSAGGSGHHIMNHQCQLKEPSQPLPLPSEGSLEDEELPAQRYERDLVQKLKVLRHSLQQPQ
AGHCRIEVSREEIFEESYRQIMKMRPKDLKRLMVKFRGEEGLDYGGVAREWLYLLCHEMLNPYYGLFQYSTDNIMLQIN
PDSSINPDHLSYFHFVGRIMGLAVFHGHYINGGFTVPFYKQLLGKPIQLSDLESVDPELHKSLWILENDITPVLDTFCVEH
NAFGRILQHELKPNGRNVPVTEENKKEYVRLYVNWRFMRGIEAQFLALQKGFNELLIPQHLLKPFQKELELIIGGLDKIDLND
WKSNTRLKHCVADSNIVRWFVQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGSGAAGPRLFTIHLIDANTDNLPKAH
TCFNRIDIPPYESYEKLYEKLTAVEETCGGGSGHHHHHH

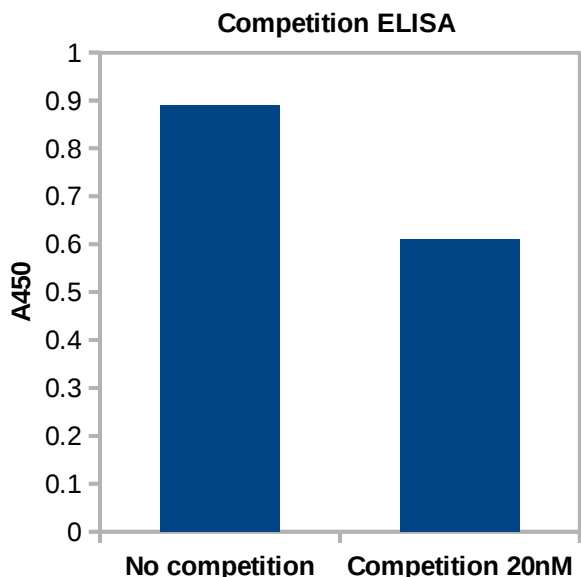
Tag N-terminus: MSGLNDIFEAQKIEWHEGSAGGSG **Tag C-terminus:** GGSGHHHHHH

Vector Type: p28BIOH-LIC **Vector Link:** http://www.thesgc.org/sites/default/files/toronto_vectors/p28BIOH-LIC.pdf

Protein Sequence Position: 340-753 **Antigen source:** *E. coli* **Source Lab:** SGC **Source Lab ID:** SMURF1-A002

Description: affinity purified recombinant protein

Validation data



Single point competition phage ELISA Plot represents specific binding of a target to the rAb-phage in solution (right bar) in comparison to binding to the target immobilized on the plate surface (left bar). Experimental conditions were calibrated to capture binders with dissociation Constant (K_D): 20nM or lower.

Experimental Conditions: Culture supernatants containing rAb-phage were diluted five-fold in phosphate-buffered saline, 0.5% (w/v) BSA, 0.1% (v/v) Tween 20 either with or without soluble antigen competitor at 20 nM. After 1 h incubation at room temperature, the mixtures were transferred to neutravidin coated plates preloaded with 50 μ L of 20 nM biotinylated antigen and incubated for 15 min. The plates were washed with phosphate-buffered saline, 0.05% (v/v) Tween 20 and incubated for 30 min with horse radish peroxidase/anti-M13 antibody conjugate (1:5000 dilution). The plates were washed, developed with 3,3',5,5'-Tetramethyl-benzidine/ H_2O_2 peroxidase substrate (Thermo Scientific), quenched with 1M H_3PO_4 , and the absorbance at 450 nm (A450) was determined.

Spiked IP:

Status: Pass

Experimental Conditions: <http://recombinant-antibodies.org/protocols/spiked-IP>

Immunofluorescence:

Status: Pass

Experimental Conditions: <http://recombinant-antibodies.org/protocols/immunofluorescence>

IP-MS – immunoprecipitation for mass spectrometric analysis:

Status:

Experimental Conditions: <http://recombinant-antibodies.org/protocols/IP-MS>

ChIP – chromatin immunoprecipitation:

Status:

Experimental Conditions: Pending

IP – immunoprecipitation:

Status:

Experimental Conditions: Pending

SP Elisa:

Status:

Experimental Conditions: <http://recombinant-antibodies.org/protocols/ELISA-IC50-EC50-direct-coating>

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