anti-SMYD3-RAB-C233

Applications

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

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

Antibody information

rAb ID: anti-SMYD3-RAB-C233

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *SMYD3* 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* SMYD3 **Epitope:** binds to folded domain amino acids 2-428

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

Link: http://recombinant-antibodies.org/binders/anti-SMYD3-RAB-C233

Antigen information

Protein Name: SET And MYND Domain-Containing Protein 3

HGNC Symbol: SMYD3 **HGNC ID:** 15513 **Species:** *Homo sapiens*

UniProt AC: Q9H7B4 **UniProt KB:** SMYD3_HUMAN

Protein Sequence:

MHHHHHHHHHHDLGTENLYFQSMEPLKVEKFATAKRGNGLRAVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLGKEK
LMRCSQCRVAKYCSAKCQKKAWPDHKRECKCLKSCKPRYPPDSVRLLGRVVFKLMDGAPSESEKLYSFYDLESNINKLTE
DKKEGLRQLVMTFQHFMREEIQDASQLPPAFDLFEAFAKVICNSFTICNAEMQEVGVGLYPSISLLNHSCDPNCSIVFNGPH
LLLRAVRDIEVGEELTICYLDMLMTSEERRKQLRDQYCFECDCFRCQTQDKDADMLTGDEQVWKEVQESLKKIEELKAHW
KWEQVLAMCQAIISSNSERLPDINIYQLKVLDCAMDACINLGLLEEALFYGTRTMEPYRIFFPGSHPVRGVQVMKVGKLQLH
QGMFPQAMKNLRLAFDIMRVTHGREHSLIEDLILLLEECDANIRASSSKGGYGLNDIFEAQKIEWHE

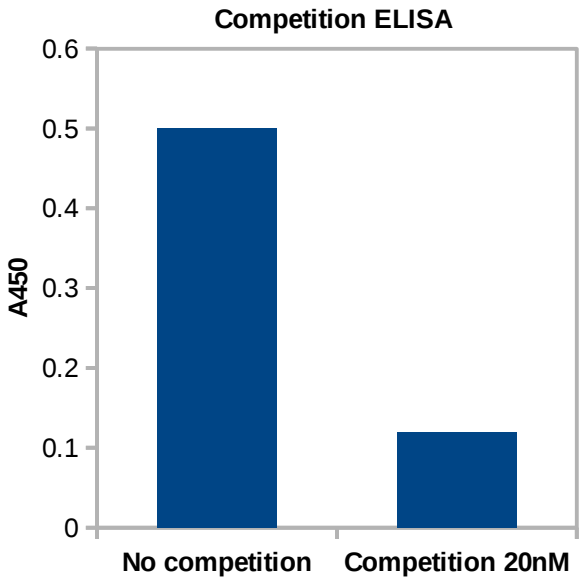
Tag N-terminus: MHHHHHHHHHHDLGTENLYFQSM **Tag C-terminus:** SSKGGYGLNDIFEAQKIEWHE

Vector Type: pNIC-Bio2 **Vector Link:** http://www.thesgc.org/sites/default/files/oxford_vectors/pNIC-Bio2.pdf

Protein Sequence Position: 2-428 **Antigen source:** *E. coli* **Source Lab:** SGC **Source Lab ID:** SMYD3-A003

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

Immunofluorescence:
Status:
Experimental Conditions: http://recombinant-antibodies.org/protocols/immunofluorescence

IP-MS – immunoprecipitation for mass spectrometric analysis:
Status: Pass
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

Visit us at http://recombinant-antibodies.org/

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