anti-SMYD2-RAB-C224



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-SMYD2-RAB-C224

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *SMYD2* 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* SMYD2 **Epitope:** binds to folded domain amino acids 1-433 **Storage conditions:** short term – store at n 4°C (over 6 months), long term - PBS -20°C or -80°C

Link: http://recombinant-antibodies.org/binders/anti-SMYD2-RAB-C224

Antigen information

Protein Name: SET and MYND domain-containing protein 2

HGNC Symbol: SMYD2 HGNC ID: 20982 Species: Homo sapiens

UniProt AC: Q9NRG4 UniProt KB: SMYD2 HUMAN

Protein Sequence:

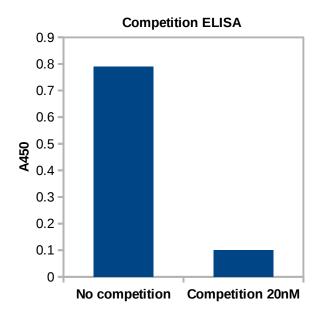
MSGLNDIFEAQKIEWHEGSAGGSGMRAEGLGGLERFCSPGKGRGLRALQPFQVGDLLFSCPAYAYVLTVNERGNHCEYC FTRKEGLSKCGRCKQAFYCNVECQKEDWPMHKLECSPMVVFGENWNPSETVRLTARILAKQKIHPERTPSEKLLAVKEFE SHLDKLDNEKKDLIQSDIAALHHFYSKHLGFPDNDSLVVLFAQVNCNGFTIEDEELSHLGSAIFPDVALMNHSCCPNVIVTYK GTLAEVRAVQEIKPGEEVFTSYIDLLYPTEDRNDRLRDSYFFTCECQECTTKDKDKAKVEIRKLSDPPKAEAIRDMVRYARN VIEEFRRAKHYKSPSELLEICELSQEKMSSVFEDSNVYMLHMMYQAMGVCLYMQDWEGALQYGQKIIKPYSKHYPLYSLN VASMWLKLGRLYMGLEHKAAGEKALKKAIAIMEVAHGKDHPYISEIKQEIESHGGSGHHHHHH

Tag N-terminus: MSGLNDIFEAQKIEWHEGSAGGSG Tag C-terminus: GGSGHHHHHHH

Vector Type: p28BIOH-LIC Vector Link: http://www.thesgc.org/sites/default/files/toronto_vectors/p28BIOH-LIC.pdf
Protein Sequence Position: 1-433 Antigen source: *E. coli* Source Lab: SGC Source Lab ID: SMYD2-A001

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 rAbphage 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 phosphatebuffered 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 peroxidase 3,3',5,5'-Tetramethyl-benzidine/H₂O₂ substrate (Thermo Scientific), quenched with 1M H₃PO₄, 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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