anti-SIRT5-RAB-C177



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-SIRT5-RAB-C177

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *SIRT5* protein under non-denaturing conditions; specificity and affinity tested.

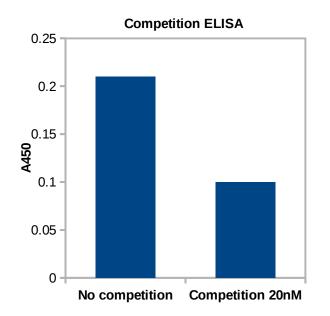
Binder type: rAb **Isotype:** IgG1 **Species:** *Homo sapiens* **Produced in:** *E. coli* **rAb tags:** Avi-tag; no tag **Specificity:** reacts with *Homo sapiens* SIRT5 **Epitope:** binds to folded domain amino acids 34-302 **Storage conditions:** short term – store at n 4°C (over 6 months), long term - PBS -20°C or -80°C **Link:** http://recombinant-antibodies.org/binders/anti-SIRT5-RAB-C177

Antigen information

Protein Name: NAD-dependent protein deacylase sirtuin-5, mitochondrial HGNC Symbol: SIRT5 HGNC ID: 14933 Species: *Homo sapiens* UniProt AC: Q9NXA8 UniProt KB: SIR5_HUMAN Protein Sequence:

MSGLNDIFEAQKIEWHEGSAGGSGARPSSSMADFRKFFAKAKHIVIISGAGVSAESGVPTFRGAGGYWRKWQAQDLATPL AFAHNPSRVWEFYHYRREVMGSKEPNAGHRAIAECETRLGKQGRRVVVITQNIDELHRKAGTKNLLEIHGSLFKTRCTSC GVVAENYKSPICPALSGKGAPEPGTQDASIPVEKLPRCEEAGCGGLLRPHVVWFGENLDPAILEEVDRELAHCDLCLVVGT SSVVYPAAMFAPQVAARGVPVAEFNTETTPATNRFRFHFQGPCGTTLPEALAGGSGHHHHHH **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:** 34-302 **Antigen source:** *E. coli* **Source Lab:** SGC **Source Lab ID:** SIRT5-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), guenched with 1M H₃PO₄, and the absorbance at 450 nm (A450) was determined.

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

Immunofluorescence:

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

IP-MS – immunoprecipitation for mass spectrometric analysis:

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

ChIP – chromatin immunoprecipitation: Status: Experimental Conditions: Pending

IP – immunoprecipitation: Status: Experimental Conditions: Pending

SP Elisa:

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

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Contact: Recombinant Antibody Network admin@recombinant-antibodies.org

The University of Chicago

Knapp Center for Biomedical Discovery Rm. 3240G 900 E. 57th St., Chicago, IL 60637 Phone: +1 (773) 834-2776

University of California, San Franciso Byers Hall Rm. 503 1700 4th St., San Francisco, CA 94158 Phone: +1 (530) 341-2371

University of Toronto

Best Institute Rm. 117 112 College Avenue, Toronto, Ontario M5G 1L6 Phone: +1 (416) 978-1594