anti-KDM2A-RAB-C323



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-KDM2A-RAB-C323

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *KDM2A* protein under non-denaturing conditions; specificity and affinity tested.

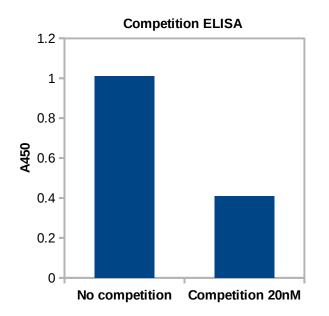
Binder type: rAb Isotype: IgG1 Species: *Homo sapiens* Produced in: *E. coli* rAb tags: Avi-tag; no tag Specificity: reacts with *Homo sapiens* KDM2A Epitope: binds to folded domain amino acids 1-517 Storage conditions: short term – store at n 4°C (over 6 months), long term - PBS -20°C or -80°C Link: http://recombinant-antibodies.org/binders/anti-KDM2A-RAB-C323

Antigen information

Protein Name: Lysine-specific demethylase 2A HGNC Symbol: KDM2A HGNC ID: 13606 Species: Homo sapiens UniProt AC: Q9Y2K7 UniProt KB: KDM2A_HUMAN Protein Sequence:

MHHHHHHHHHHDLGTENLYFQSMEPEEERIRYSQRLRGTMRRRYEDDGISDDEIEGKRTFDLEEKLHTNKYNANFVTFME GKDFNVEYIQRGGLRDPLIFKNSDGLGIKMPDPDFTVNDVKMCVGSRRMVDVMDVNTQKGIEMTMAQWTRYYETPEEER EKLYNVISLEFSHTRLENMVQRPSTVDFIDWVDNMWPRHLKESQTESTNAILEMQYPKVQKYCLMSVRGCYTDFHVDFGG TSVWYHIHQGGKVFWLIPPTAHNLELYENWLLSGKQGDIFLGDRVSDCQRIELKQGYTFVIPSGWIHAVYTPTDTLVFGGNF LHSFNIPMQLKIYNIEDRTRVPNKFRYPFYYEMCWYVLERYVYCITNRSHLTKEFQKESLSMDLELNGLESGNGDEEAVDR EPRRLSSRRSVLTSPVANGVNLDYDGLGKTCRSLPSLKKTLAGDSSSDCSRGSHNGQVWDPQCAPRKDRQVHLTHFELE GLRCLVDKLESLPLHKKCVPTGIEDEDALIADVKILLEELANSDPKLALTGVPIVQWPSSKGGYGLNDIFEAQKIEWHE **Tag N-terminus:** MHHHHHHHHHDLGTENLYFQSM **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:** 1-517 **Antigen source:** *E. coli* **Source Lab:** SGC **Source Lab ID:** FBXL11A-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 $1M H_3PO_4$, 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: 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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