

anti-KDM4D-RAB-C327



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-KDM4D-RAB-C327

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *KDM4D* 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* KDM4D **Epitope:** binds to folded domain amino acids 1-358

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-KDM4D-RAB-C327>

Antigen information

Protein Name: Lysine-specific demethylase 4D

HGNC Symbol: KDM4D **HGNC ID:** 25498 **Species:** *Homo sapiens*

UniProt AC: Q6B0I6 **UniProt KB:** KDM4D_HUMAN

Protein Sequence:

MHHHHHHSSGVDLG TENLYFQSMETMKSKANCAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWK
ARETYDNISEILATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYWKNRIYNSPIYGADI
SGSLFDENTKQWNLGHLGTIQDLLEKECGVVIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYHLHGEPKTWYVVPPEHG
QRLERLARELFPGSSRGCGAFLRHKVALISPTVLKENGIPFNRTQEAGEFMVTFPYGYHAGFNHGFNCAEAINFATPRWID
YGKMASQCSCGEARVTFMSDAFVRILQPERYDLWKRGGQDRAVVDHMEPRVPASQEL

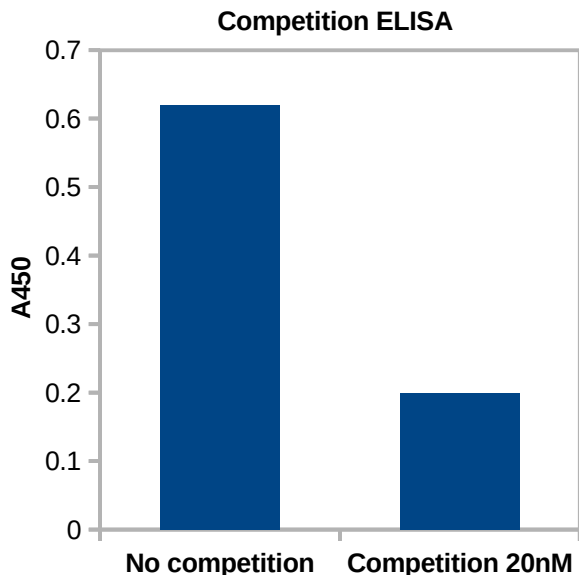
Tag N-terminus: MHHHHHHSSGVDLG TENLYFQSM **Tag C-terminus:**

Vector Type: pNIC28-Bsa4 **Vector Link:** http://www.thesgc.org/sites/default/files/oxford_vectors/pNIC28-Bsa4t.pdf

Protein Sequence Position: 1-358 **Antigen source:** *E. coli* **Source Lab:** SGC **Source Lab ID:** JMJD2DA-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 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:

Experimental Conditions: [Pending](#)

Immunofluorescence:

Status:

Experimental Conditions: https://recombinant-antibodies.org/protocols/#uagb-tabs_tab1

IP-MS – immunoprecipitation for mass spectrometric analysis:

Status: Pass

Experimental Conditions: https://recombinant-antibodies.org/protocols/#uagb-tabs_tab1

ChIP – chromatin immunoprecipitation:

Status:

Experimental Conditions: Pending

IP – immunoprecipitation:

Status:

Experimental Conditions: Pending

SP Elisa:

Status:

Experimental Conditions: https://recombinant-antibodies.org/protocols/#uagb-tabs_tab1

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

University of California, San Francisco

UCSF Byers Hall Rm. 504
1700 4th St., San Francisco, CA 94158

University of Waterloo

School of Pharmacy
10 A Victoria St. S., Kitchener, Ontario, Canada N2G 1C5