## Applications

| Competition <br> ELISA | Western <br> Blot | SPR | Spiked IP | Immunofluorescence | IP-MS | ChIP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pass |  |  | Pass | Pass |  |  |
| ${ }^{\text {rab has been tested for the following applications. See below for the experimental details. }}$ |  |  |  |  |  |  |

## Antibody information

rAb ID: anti-ZNF232-RAB-C473
Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing ZNF232 protein under non-denaturing conditions; specificity and affinity tested.
Binder type: rAb Isotype: lgG1 Species: Homo sapiens Produced in: E. coli rAb tags: Avi-tag; no tag Specificity: reacts with Homo sapiens ZNF232 Epitope: binds to folded domain amino acids 29-109
Storage conditions: short term - store at $n 4^{\circ} \mathrm{C}$ (over 6 months), long term - PBS $-20^{\circ} \mathrm{C}$ or $-80^{\circ} \mathrm{C}$
Link: http://recombinant-antibodies.org/binders/anti-ZNF232RAB-C473

## Antigen information

Protein Name: Zinc finger protein 232
HGNC Symbol: ZNF232 HGNC ID: 7775 Species: Homo sapiens
UniProt AC: Q9UNY5 UniProt KB: ZN232_HUMAN
Protein Sequence:
MSGLNDIFEAQKIEWHEHHHHHHENLYFQSHMEEEQSCEYETRLPGNHSTSQEIFRQRFRHLRYQETPGPREALSQLRVL

## CCEWLRPEKHTKEQILEFLVLEQFLTILPEELQ

Tag N-terminus: MSGLNDIFEAQKIEWHEHHHHHHENLYFQSHM Tag C-terminus:
Vector Type: pET15Avi6HT_NESG Vector Link: http://beta.labgeni.us/registries/DNASU/pET15Avi6HT_NESG/
Protein Sequence Position: 29-109 Antigen source: E. coli Source Lab: Rutgers Source Lab ID: HR7779A. 001
Description: affinity purified recombinant protein

Competition ELISA


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 $\left(K_{D}\right)$ : 20 nM 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 $50 \mu \mathrm{~L}$ of 20 nM biotinylated antigen and incubated for 15 min . The plates were washed with phosphatebuffered saline, $0.05 \%(\mathrm{v} / \mathrm{v})$ 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 $/ \mathrm{H}_{2} \mathrm{O}_{2}$ peroxidase substrate (Thermo Scientific), quenched with $1 \mathrm{M} \mathrm{H}_{3} \mathrm{PO}_{4}$, and the absorbance at 450 nm (A450) was determined.

Spiked IP:
Status: Pass
Experimental Conditions: http://recombinant-antibodies.org/protocols/spiked-IP

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

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