# anti-ZSCAN5C-RAB-S187

## 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-ZSCAN5C-RAB-S187

**Description:** recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *ZSCAN5C* 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; Flag-tag

**Specificity:** reacts with *Homo sapiens* ZSCAN5C **Epitope:** binds to folded domain amino acids 37-124

**Storage conditions:** short term – store at n 4ºC (over 6 months), long term - PBS -20ºC or -80ºC

**Link:** http://recombinant-antibodies.org/binders/anti-ZSCAN5C-RAB-S187

## Antigen information

**Protein Name:** Zinc finger and SCAN domain-containing protein 5C

**HGNC Symbol:** ZSCAN5C **HGNC ID:** 34294 **Species:** *Homo sapiens*

**UniProt AC:** A6NGD5 **UniProt KB:** ZSA5C_HUMAN

**Protein Sequence:**

MSGLNDIFEAQKIEWHEHHHHHHENLYFQSHMDSDPETCHVNFRMFSCPKESDPIQALRKLTELCHLWLRPDLHTKEQILD
MLVMEQFMISMPQELQVLVMMNGVQSCKDLEDLLRNNRR

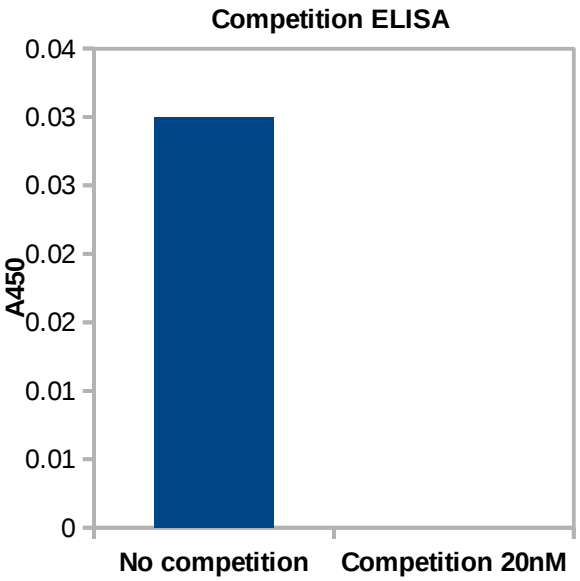
**Tag N-terminus:** MSGLNDIFEAQKIEWHEHHHHHHENLYFQSHM **Tag C-terminus:**

**Vector Type:** pET15Avi6HT_NESG **Vector Link:** http://beta.labgeni.us/registries/DNASU/pET15Avi6HT_NESG/

**Protein Sequence Position:** 37-124 **Antigen source:** *E. coli* **Source Lab:** Rutgers **Source Lab ID:** HR7759A.005

**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 µL 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:** 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

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