anti-ATF7-RAB-S29



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-ATF7-RAB-S29

Description: recombinant Fab fragment obtained by recombinant antibody (rAb) phage display recognizing *ATF7* protein under non-denaturing conditions; specificity and affinity tested.

Binder type: rAb Isotype: IgG1 Species: Homo sapiens Produced in: E. coli rAb tags: no tag; Flag-tag

Specificity: reacts with *Homo sapiens* ATF7 **Epitope:** binds to folded domain amino acids 341-405 **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-ATF7-RAB-S29

Antigen information

Protein Name: Activating transcription factor 7

HGNC Symbol: ATF7 HGNC ID: 792 Species: Homo sapiens

UniProt AC: P17544 UniProt KB: ATF7 HUMAN

Protein Sequence:

MKIEEHHHHHHSSGKLGGGLNDIFEAQKIEWHEEDLYFQSAAQPADPDERRQRFLERNRAAASRCRQKRKLWVSSLEKK

AEELTSQNIQLSNEVTLLRNEVAQLKQLLLAAA

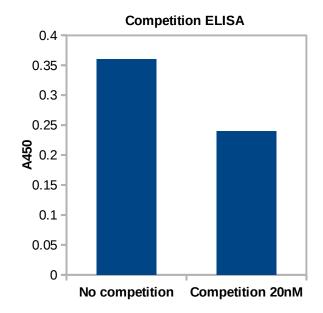
Tag N-terminus: MKIEEHHHHHHSSGKLGGGLNDIFEAQKIEWHEEDLYFQSAAQPA Tag C-terminus:

Vector Type: RH2.2 Vector Link: http://dnasu.org/DNASU/GetVectorDetail.do?vectorid=612

Protein Sequence Position: 341-405 Antigen source: E. coli Source Lab: RAN Source Lab ID: BL67-Atf7

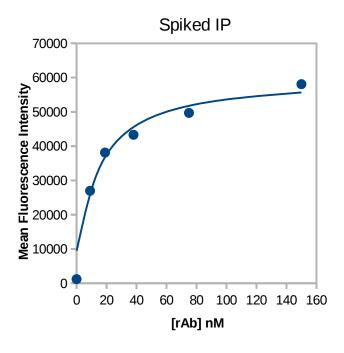
Description: affinity purified recombinant protein

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 3,3',5,5'-Tetramethyl-benzidine/H₂O₂ peroxidase substrate (Thermo Scientific), quenched with 1M H₃PO₄, and the absorbance at 450 nm (A450) was determined.



Spiked IP Tritration curve of rAb against antigen of interest. The K_D values were obtained by the least-squares fitting of fluorescence saturation data.

Dissociation Constant (K_D): < 9.375 nM

Experimental Conditions:

Spiked IP: Antigen was immobilized to M280 Dynabeads. A rAb, 50 nM, was pulled down from high salt AFC buffer with or without HEK293 lysate (OD280 ~10). Beads were washed with low salt AFC buffer, and the captured antibody was quantified with an anti-Fab fluorophore labeled antibody on a flow cytometer.

Affinity Measurement: Antigen was immobilized to M280 Dynabeads and incubated with a rAb, in varying concentration (100 nM down to 1 nM in three-fold dilutions). Beads were washed with BSET/BSA and quantified.

Buffers:

High salt AFC buffer: 10 mM Tris-HCl, pH 7.9, 420 mM NaCl, 0.1% NP-40

Low salt AFC buffer: 10 mM Tris-HCl, pH 7.9, 100 mM NaCl, 0.1% NP-40

PBSE/BSA: 20 mM Na2HPO4, pH 7.5, 150 mM NaCl, 1 mM

EDTA, 0.5% BSA

PBSET/BSA: PBSE/BSA + 0.1% Tween-20

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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