For Research Use Only

TCF4/TCF7L2 Recombinant monoclonal antibody

Catalog Number:89174-1-RR

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Basic Information

Catalog Number:
89174-1-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4729

GenBank Accession Number:
BC032656

GeneID (NCBI):
6934

UNIPROT ID:
Q9NQB0

Full Name:
transcription factor 7-like 2 (T-cell specific, HMG-box)

Calculated MW:
619 aa, 68 kDa

Observed MW:
60, 75 kDa

Purification Method:
Protein A purification

CloneNo.:
262241D1

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:1000

Applications

Tested Applications:
WB, IHC, IP, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, L02 cells, HepG2 cells, HCT 116 cells, SW480 cells, mouse small intestine tissue, mouse colon tissue

IP : HEK-293 cells,

IHC : human colon tissue,

Background Information

TCF7L2 encodes an HMG-box transcription factor and key effector of canonical Wnt/β-catenin signaling, regulating development and tissue homeostasis. It is the strongest genetic susceptibility locus for type 2 diabetes. Alternative splicing produces functionally distinct isoforms, and TCF7L2 variants have also been linked to Crohn's disease and cancer, indicating pleiotropic roles in disease.

Storage

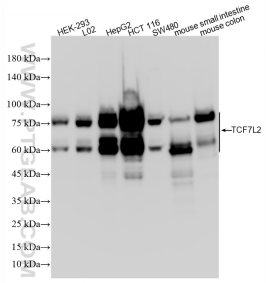
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

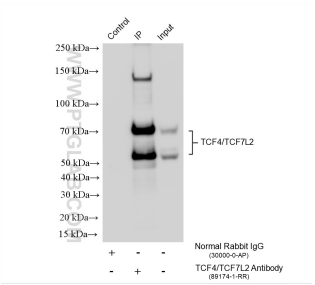
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

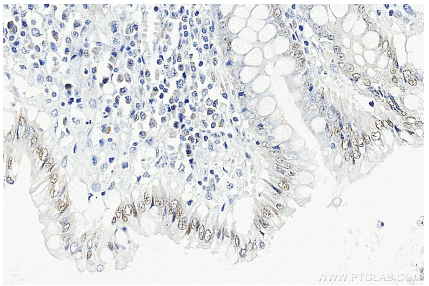
Selected Validation Data



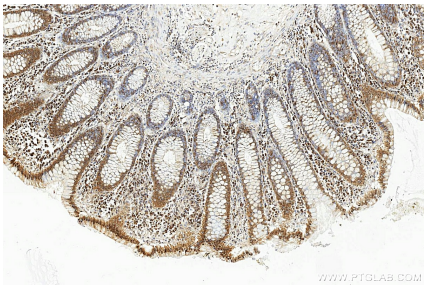
Various lysates were subjected to SDS PAGE followed by western blot with 89174-1-RR (TCF7L2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



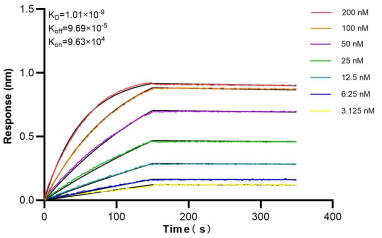
IP result of anti-TCF4/TCF7L2 (IP:89174-1-RR, 4ug; Detection:89174-1-RR 1:2000) with HEK-293 cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 89174-1-RR (TCF4/TCF7L2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 89174-1-RR (TCF4/TCF7L2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 89174-1-RR against Human TCF4/TCF7L2 were performed. The affinity constant is 1.01 nM.