For Research Use Only

TCF4/TCF7L2 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:89174-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
89174-1-PBS

Size:
100ug , Concentration: 1 mg/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

Applications

Tested Applications:
WB, IHC, IP, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

89174-1-PBS targets TCF4/TCF7L2 as part of a matched antibody pair:

MP03819-1: 89174-1-PBS capture and 89174-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

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.

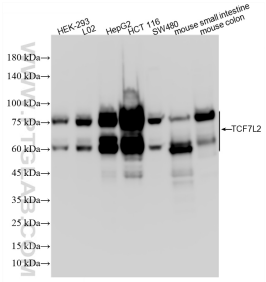
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

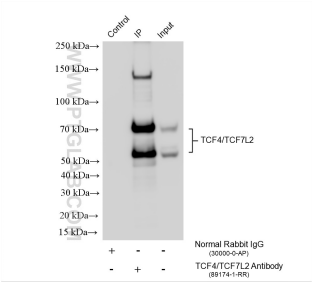
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

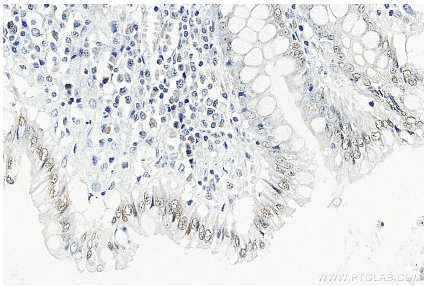
Selected Validation Data



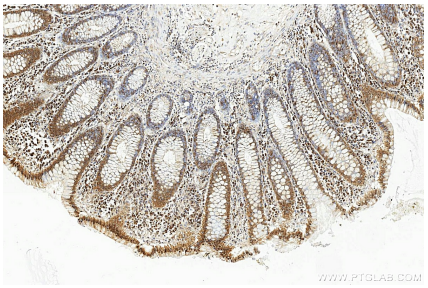
Various lysates were subjected to SDS PAGE followed by western blot with 89174-1-RR (TCF7L2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 89174-1-PBS in a different storage buffer formulation.



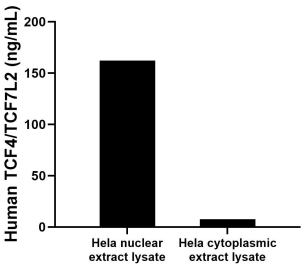
IP result of anti-TCF4/TCF7L2 (IP:89174-1-RR, 4ug; Detection:89174-1-RR 1:2000) with HEK-293 cells lysate 1800 ug. This data was developed using the same antibody clone with 89174-1-PBS in a different storage buffer formulation.



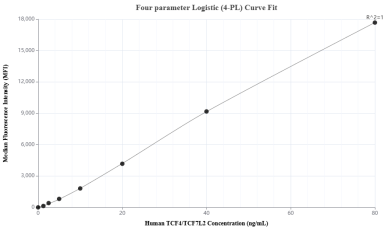
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 89174-1-RR (TCF4/TCF7L2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 89174-1-PBS in a different storage buffer formulation.



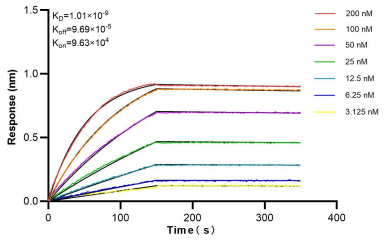
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 89174-1-RR (TCF4/TCF7L2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 89174-1-PBS in a different storage buffer formulation.



The mean TCF4/TCF7L2 concentration was determined to be 162.3 ng/mL in Hela nuclear cell extract based on a 1.2 mg/mL extract load, 7.7 ng/mL in Hela cytoplasmic cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03819-1, TCF4/TCF7L2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 89174-1-PBS. Detection antibody: 89174-2-PBS. Standard: Ag4729. Range: 1.25-80 ng/mL.



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