For Research Use Only

SNAI1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:81584-4-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
81584-4-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24248

GenBank Accession Number:
BC012910

GeneID (NCBI):
6615

UNIPROT ID:
O95863

Full Name:
snail homolog 1 (Drosophila)

Calculated MW:
264 aa, 29 kDa

Purification Method:
Protein A purification

CloneNo.:
240164C2

Applications

Tested Applications:
IHC, IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

81584-4-PBS targets SNAI1 as part of a matched antibody pair:

MP00343-2: 81584-4-PBS capture and 81584-3-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

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

SNAI1, a member of SNAI1 family of protein, participates in the epithelial to mesenchymal transition(EMT) and formation and maintenance of embryonic mesoderm. The snail family share a common structural, that a highly conserved C-terminal region containing a zinc finger transcription factor. SNAI1 interacts with other corepressor, such as Ajuba, PRMT5 and SIN3a or HDAC1 and 2, to repress the target gene. As the phosphorylation modification of SNAI1 protein, the range of molecular weight of SNAI1 is about 25-30 kDa (PMID: 22276203). Once phosphorylated (probably on Ser-107, Ser-111, Ser-115 and Ser-119) it is exported from the nucleus to the cytoplasm where subsequent phosphorylation of the destruction motif and ubiquitination involving BTRC occurs.

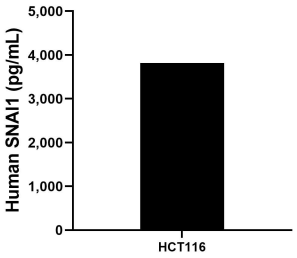
Storage

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

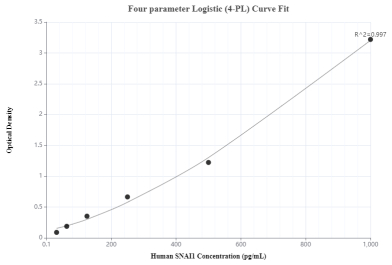
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

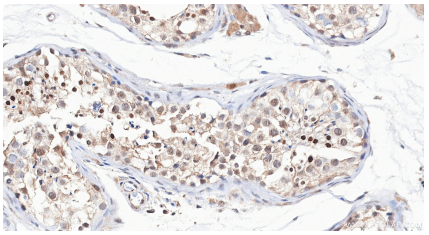
Selected Validation Data



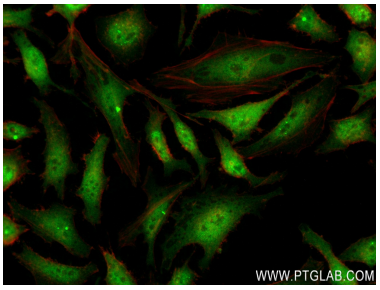
The mean SNAI1 concentration was determined to be 3,819.6 pg/mL in HCT116 cell extract based on a 3.0 mg/mL extract load.



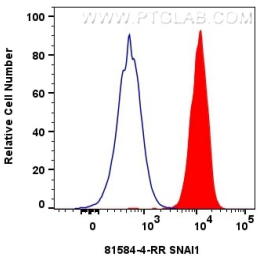
Sandwich ELISA standard curve of MP00343-2, Human SNAI1 Recombinant Matched Antibody Pair - PBS only. 81584-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag24248. 81584-3-PBS was HRP conjugated as the detection antibody. Range: 31.25-1000 pg/mL.



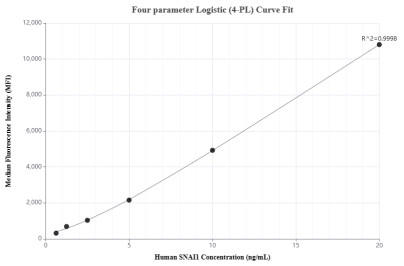
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 81584-4-RR (SNAI1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81584-4-PBS in a different storage buffer formulation.



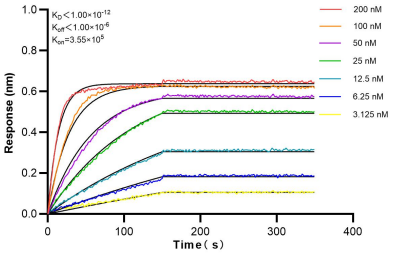
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SNAI1 antibody (81584-4-RR, Clone: 240164C2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 81584-4-PBS in a different storage buffer formulation.



1x10^6 A549 cells were intracellularly stained with 0.25 ug SNAI1 Recombinant antibody (81584-4-RR, Clone:240164C2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug rabbit IgG isotype control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 81584-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00343-2, SNAI1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 81584-4-PBS. Detection antibody: 81584-3-PBS. Standard: Ag24248. Range: 0.625-20 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 81584-4-RR against Human SNAI1 were performed. The affinity constant is below 1 pM.