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ILDR1 Rabbit pAb

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Catalog # AP94042

Product Information

Application	WB
Primary Accession	Q86SU0
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62815
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ILDR1
Epitope Specificity	101-200/546
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Single pass type I membrane protein. Isoform 5: Cytoplasm (cytosol).
SIMILARITY	Belongs to the immunoglobulin superfamily. LISCH7 family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
SUBUNIT	Homooligomer.
DISEASE	Defects in ILDR1 are the cause of deafness autosomal recessive type 42 (DFNB42) [MIM:609646]; also called non-syndromic sensorineural deafness autosomal recessive type 42. DFNB42 is a prelingual, non-progressive form of non-syndromic sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Similarity : Belongs to the immunoglobulin superfamily. LISCH7 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ILDR1 is a putative membrane receptor. It belongs to the immunoglobulin superfamily, LISCH7 family. It is mainly expressed in prostate and to a lower extent in testis, pancreas, kidney, heart and liver.

Additional Information

Gene ID	286676
Other Names	Immunoglobulin-like domain-containing receptor 1, Angulin-2, ILDR1 (HGNC:28741)
Target/Specificity	Mainly expressed in prostate and to a lower extent in testis, pancreas, kidney, heart and liver.
Dilution	WB=1:500-2000,Flow-Cyt=3ug/Test

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

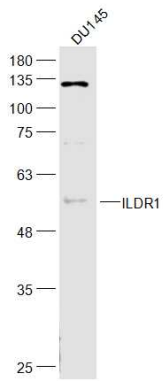
Protein Information

Name	ILDR1 (HGNC:28741)
Function	Maintains epithelial barrier function by recruiting MARVELD2/tricellulin to tricellular tight junctions (tTJs) (PubMed:23239027). Crucial for normal hearing by maintaining the structural and functional integrity of tTJs, which are critical for the survival of auditory neurosensory HCs. Mediates fatty acids and lipoproteins-stimulated CCK/cholecystokinin secretion in the small intestine. In the inner ear, may regulate alternative pre-mRNA splicing via binding to TRA2A, TRA2B and SRSF1 (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Cytoplasm
Tissue Location	Mainly expressed in prostate and to a lower extent in testis, pancreas, kidney, heart and liver

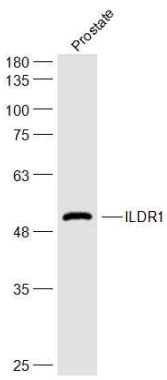
Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

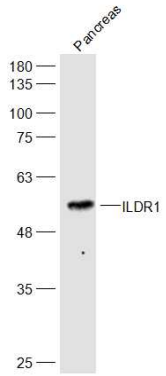
Images



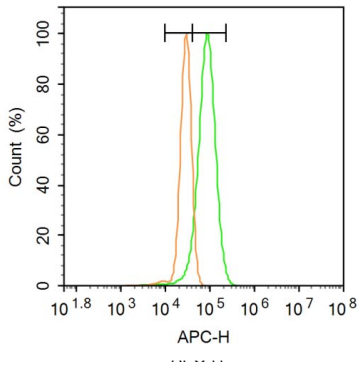
Sample: DU145(Human) Cell Lysate at 30 ug Primary: Anti-ILDR1 (AP94042) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 56 kD



Sample: Prostate(Rat) Cell Lysate at 40 ug Primary: Anti-ILDR1 (AP94042) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 56 kD



Sample: Pancreas(Mouse) Cell Lysate at 40 ug Primary: Anti-ILDR1 (AP94042) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 56kD



Blank control: A431. Primary Antibody (green line): Rabbit Anti-ILDR1 antibody (AP94042) Dilution: 1 µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1 µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.