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ILDR2 Rabbit pAb

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Catalog # AP56329

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q71H61
Predicted	Human, Mouse, Rat, Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71200
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ILDR2
Epitope Specificity	41-140/639
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	Membrane.
SIMILARITY	Belongs to the immunoglobulin superfamily. LISCH7 family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The C1orf32 gene product has been provisionally designated C1orf32 pending further characterization.

Additional Information

Gene ID	387597
Other Names	Immunoglobulin-like domain-containing receptor 2, Angulin-3, ILDR2 (HGNC:18131), C1orf32

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
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	ILDR2 (HGNC:18131)
Synonyms	C1orf32
Function	May be involved in ER stress pathways with effects on lipid homeostasis and insulin secretion. With ILDR1 and LSR, involved in the maintain of the epithelial barrier function through the recruitment of MARVELD2/tricellulin to tricellular tight junctions (By similarity). Also functions as a B7-like protein family member expressed on immune cells and inflamed tissue and with T-cell inhibitory activity (PubMed:29431694). In the inner ear, may regulate alternative pre-mRNA splicing via binding to TRA2A, TRA2B and SRSF1 (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:B5TVM2}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:B5TVM2}. Cell junction, tight junction {ECO:0000250|UniProtKB:B5TVM2}. Nucleus {ECO:0000250|UniProtKB:B5TVM2}
Tissue Location	Expressed in testis, brain, pituitary, colon, heart, nerves, prostate, esophagus, lung liver and small intestine (PubMed:29431694). Highly expressed in macrophages, also expressed in monocytes and at low levels in NK and NKT cells (at protein level) (PubMed:29431694).

Background

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