

LRRC8D Rabbit pAb

CatalogNo: YN7310

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 94kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human LRRC8D. AA range:97-167

Specificity This antibody detects endogenous levels of LRRC8D at Human, Mouse, Rat

Target Information

Gene name LRRC8D LRRC5 UNQ213/PRO239

Protein Name Leucine-rich repeat-containing protein 8D (Leucine-rich repeat-containing protein 5)

Organism	Gene ID	UniProt ID
Human	55144;	Q7L1W4;
Mouse	231549;	Q8BGR2;
Rat	305131;	Q5U308;

Cellular Localization

Cell membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . In the absence of LRRC8A, resides primarily in a cytoplasmic compartment, probably the endoplasmic reticulum (PubMed:24782309, PubMed:24790029). Requires LRRC8A for expression at the cell membrane (PubMed:24790029). .

Function

Non-essential component of the volume-regulated anion channel (VRAC, also named VSOAC channel), an anion channel required to maintain a constant cell volume in response to extracellular or intracellular osmotic changes . The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine . Plays a redundant role in the efflux of amino acids, such as aspartate, in response to osmotic stress . LRRC8A and LRRC8D are required for the uptake of the drug cisplatin . Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition . Also acts as a regulator of glucose-sensing in pancreatic beta cells: VRAC currents, generated in response to hypotonicity- or glucose-induced beta cell swelling, depolarize cells, thereby causing electrical excitation, leading to increase glucose sensitivity and insulin secretion (By similarity). VRAC channels containing LRRC8D inhibit transport of immunoreactive cyclic dinucleotide GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol . Mediates the import of the antibiotic blasticidin-S into the cell .

| Validation Data

| Contact information

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LRRC8D Rabbit pAb

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