

LRC8E Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9755c**Specification**

LRC8E Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q6NSJ5](#)**LRC8E Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 80131

Other Names

Volume-regulated anion channel subunit LRRC8E, Leucine-rich repeat-containing protein 8E, LRRC8E

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LRC8E Antibody (Center) Blocking Peptide - Protein Information**Name** LRRC8E {ECO:0000303|PubMed:22532330, ECO:0000312|HGNC:HGNC:26272}**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 (PubMed:24790029, PubMed:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (PubMed:24790029, PubMed:26824658). Mediates efflux of amino acids, such as aspartate, in response to osmotic stress (PubMed:28193731). The VRAC channel also mediates transport of immunoreactive cyclic dinucleotide GMP-AMP (2'- 3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol (PubMed:33171122). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition (PubMed:24790029, PubMed:24790029, PubMed:24790029).

[26824658](http://www.uniprot.org/citations/26824658), PubMed:[28193731](http://www.uniprot.org/citations/28193731)). Also plays a role in lysosome homeostasis by forming functional lysosomal VRAC channels in response to low cytoplasmic ionic strength condition: lysosomal VRAC channels are necessary for the formation of large lysosome-derived vacuoles, which store and then expel excess water to maintain cytosolic water homeostasis (PubMed:[33139539](http://www.uniprot.org/citations/33139539)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane. Lysosome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=In the absence of LRRC8A, resides primarily in the endoplasmic reticulum (PubMed:24790029, PubMed:33139539). Requires LRRC8A for localization at the cell membrane or lysosome membrane (PubMed:24790029, PubMed:33139539).

LRC8E Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

LRC8E Antibody (Center) Blocking Peptide - Images