abcam

Product datasheet

Recombinant Human IP3 receptor protein ab158779

1 Image

Description

Product name	Recombinant Human IP3 receptor protein
Expression system	Wheat germ
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	EHTCETLLMCIVTVLSHGLRSGGGVGDVLRKPSKEEPLFA ARVIYDLLFF FMVIIIVLNLIFGVIIDTFADLRSEKQKKEEILKTTCFICGLERD KFDNK TVTFEEHI
Amino acids	2470 to 2577
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab158779** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Form	Liquid
Additional notes	

Preparation and Storage

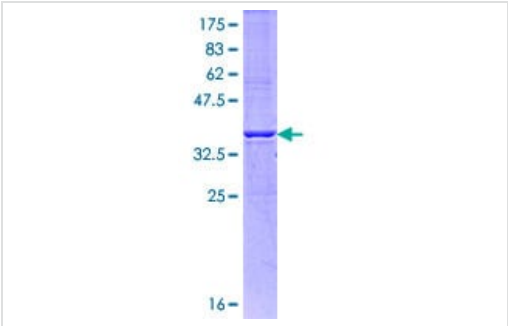
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

General info

Function	Intracellular channel that mediates calcium release from the endoplasmic reticulum following stimulation by inositol 1,4,5-trisphosphate.
Tissue specificity	Widely expressed.
Involvement in disease	Defects in ITPR1 are the cause of spinocerebellar ataxia type 15 (SCA15) (SCA15) [MIM:606658]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA15 is an autosomal dominant cerebellar ataxia (ADCA). It is very slow progressing form with a wide range of onset, ranging from childhood to adult. Most patients remain ambulatory.
Sequence similarities	Belongs to the InsP3 receptor family. Contains 5 MIR domains.
Domain	The receptor contains a calcium channel in its C-terminal extremity. Its large N-terminal cytoplasmic region has the ligand-binding site in the N-terminus and modulatory sites in the middle portion immediately upstream of the channel region.
Post-translational modifications	Phosphorylated by cAMP kinase. Phosphorylation prevents the ligand-induced opening of the calcium channels. Phosphorylated on tyrosine residues.
Cellular localization	Endoplasmic reticulum membrane.

Images



SDS-PAGE - Recombinant Human IP3 receptor protein (ab158779)

ab158779 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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