10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ITPR1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ITPR1.
Catalog # AT2575a

Product Information

Application	E
Primary Accession	Q14643
Other Accession	NM_002222
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B6
Calculated MW	313929

Additional Information

Gene ID	3708
Other Names	Inositol 1, 5-trisphosphate receptor type 1, IP3 receptor isoform 1, IP3R 1, InsP3R1, Type 1 inositol 1, 5-trisphosphate receptor, Type 1 InsP3 receptor, ITPR1, INSP3R1
Target/Specificity	ITPR1 (NP_002213, 2470 a.a. ~ 2577 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ITPR1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

This gene encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in this gene cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Multiple transcript variants have been identified for this gene.

References

1.Microdomains of muscarinic acetylcholine and InsP3 receptors create InsP3 junctions and sites of Ca2+

wave initiation in smooth muscle.Olson ML, Sandison ME, Chalmers S, McCarron JG.J Cell Sci. 2012 Sep 3.