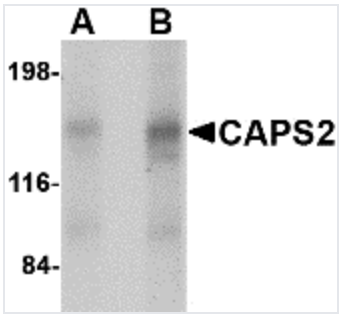
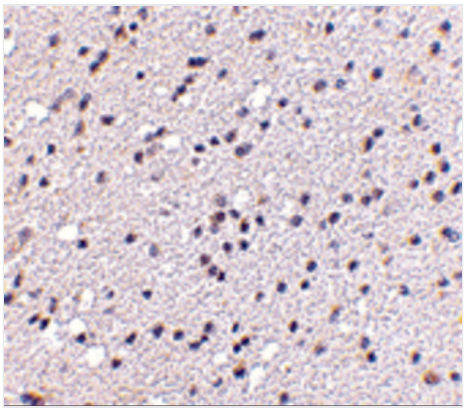
CADPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

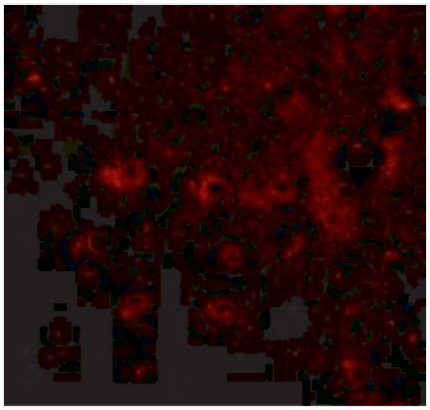
Product Name	CAPS2 (CADPS2), Polyclonal Antibody
Full Product Name	CAPS2 Antibody
Product Gene Name	anti-CADPS2 antibody
Product Synonym Names	CAPS2; CAPS2; KIAA1591; Calcium-dependent secretion activator 2; Calcium-dependent activator protein for secretion 2; CAPS-2; Ca++-dependent secretion activator 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; CAPS2 Antibody is supplied in PBS containing 0.02% sodium azide.
Purity/Purification	CAPS2 Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	Multiple isoforms of CAPS2 are known to exist. This CAPS2 antibody is predicted to be specific to CAPS2 and not recognize CAPS1.
Preparation and Storage	CAPS2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	CAPS2 peptide (MBS152077) is used for blocking the activity of CAPS2 antibody (MBS150554)
Molecular Weight	Predicted Molecular Weight: 138, 145 kDa Observed Molecular Weight: 150 kDa
OMIM	609978
3D Structure	ModBase 3D Structure for Q86UW7
Immunogen	CAPS2 antibody was raised against a 19 amino acid synthetic peptide near the center of the human CAPS2. The immunogen is located within amino acids 510-560 of CAPS2.
Applications Tested/Suitable for anti-CADPS2 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry-paraffin (IHC-p), Immunofluorescence (IF)
Application Notes for anti-CADPS2 antibody	Optimal dilutions for each application to be determined by the researcher. The information provided is a guidline for product use. This product is for research use only.
Related Product Information for anti-CADPS2 antibody	MBS150554 is an antibody targeting CADPS2. Also known as CAPS2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CADPS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CADPS2 antibody
Western blot analysis of CAPS2 in human brain tissue lysate with CAPS2 antibody at (A) 0.5 and (B) 1 ?g/mL.



Immunohistochemistry (IHC) of anti-CADPS2 antibody
Immunohistochemistry of CAPS2 in human brain with CAPS2 antibody at 5 ?g/mL.



Immunofluorescence (IF) of anti-CADPS2 antibody
Immunofluorescence of CAPS2 in Human Brain tissue with CAPS2 antibody at 20 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CADPS2. It may not necessarily be applicable to this product.

NCBI GI #	148839294
NCBI GeneID	93664
NCBI Accession #	NP_060424
UniProt Primary Accession #	Q86UW7
UniProt Secondary Accession #	Q658Q2; Q7Z5T7; Q8IZW9; Q8N7M4; Q9H6P4; Q9HCI1; Q9NWK8; A4D0X3; B7ZM56
UniProt Related Accession #	Q86UW7
GenBank Nucleotide #	NM_017954.10
NCBI Official Full Name	calcium-dependent secretion activator 2 isoform a
NCBI Official Synonym Full Names	Ca++-dependent secretion activator 2
NCBI Official Symbol	CADPS2
UniProt Protein Name	Calcium-dependent secretion activator 2
UniProt Synonym Protein Names	Calcium-dependent activator protein for secretion 2; CAPS-2
Protein Family	Calcium-dependent secretion activator
UniProt Gene Name	CADPS2
UniProt Synonym Gene Names	CAPS2; KIAA1591; CAPS-2

UniProt Entry Name	CAPS2_HUMAN
NCBI Protein Information	calcium-dependent secretion activator 2; CAPS-2; Ca2+-dependent activator protein for secretion 2; calcium-dependent activator protein for secretion 2
NCBI Summary for CADPS2	This gene encodes a member of the calcium-dependent activator of secretion (CAPS) protein family, which are calcium binding proteins that regulate the exocytosis of synaptic and dense-core vesicles in neurons and neuroendocrine cells. Mutations in this gene may contribute to autism susceptibility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2009]
UniProt Comments for CADPS2	CADPS2: Calcium-binding protein involved in exocytosis of vesicles filled with neurotransmitters and neuropeptides. Probably acts upstream of fusion in the biogenesis or maintenance of mature secretory vesicles. Regulates neurotrophin release from granule cells leading to regulate cell differentiation and survival during cerebellar development. May specifically mediate the Ca(2+)- dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles. 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 7q31.3 Cellular Component: presynaptic membrane; postsynaptic membrane; cytoplasmic vesicle membrane; cell junction Molecular Function: metal ion binding; lipid binding Biological Process: protein transport; cellular response to starvation; synaptic vesicle priming; positive regulation of exocytosis
Research Articles on CADPS2	**1.** Mutation screening of 187 patients with autism spectrum disorders and 36 with intellectual disability identified a missense change of maternal origin disrupting CADPS2/D2DR interaction.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-cadps2-human-mouse-rat-antibody/caps2/150554