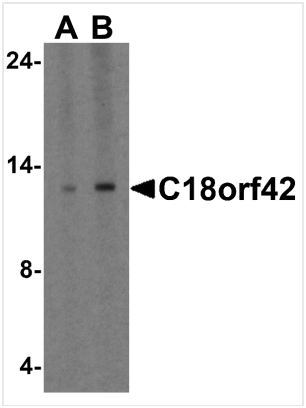
C18ORF42 Antibody – Rabbit Polyclonal

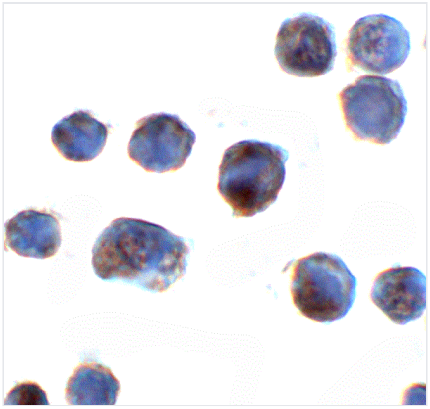
PRODUCT OVERVIEW

Product Name	C18orf42, Polyclonal Antibody
Full Product Name	C18orf42 Antibody
Product Gene Name	anti-C18orf42 antibody
Product Synonym Names	Chromosome 18 open reading frame 42
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	C18orf42 antibody is human specific.
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.
Antibody/Peptide Pairs	C18orf42 peptide (MBS154424) is used for blocking the activity of C18orf42 antibody (MBS154356)
Molecular Weight	Predicted: 8 kDa Observed: 12 kDa
OMIM	616427
3D Structure	ModBase 3D Structure for P0CW23
Immunogen	C18orf42 antibody was raised against a 16 amino acid peptide from near the center of human C18orf42.
Buffer	Supplied in PBS containing 0.02% sodium azide.
Positive Control 1	HeLa Cell Lysate
Conjugate	Unconjugated
Product Categories/Family for anti-C18orf42 antibody	Neurobiology
Applications Tested/Suitable for anti-C18orf42 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-C18orf42 antibody	C18orf42 antibody can be used for the detection of C18orf42 by Western blot at 1 - 2 mug/mL.
Related Product Information for anti-C18orf42 antibody	Little is known of the function of the protein encoded by Chromosome 18 open reading frame 18 (C18orf42), but it is preferentially expressed in neuronal tissue (1). It is thought to bind to the cAMP-dependent protein kinase A (PKA) and regulation its interaction with members of the A-kinase anchoring protein (AKAP) family (1).
Product References and Citations for anti-C18orf42 antibody	Fukuda M and Aizawa Y. Hypothetical gene C18orf42 encodes a novel protein kinase A-binding protein. Genes Cells 2015; 20:267-80.
Other Notes	Small volumes of anti-C18orf42 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.

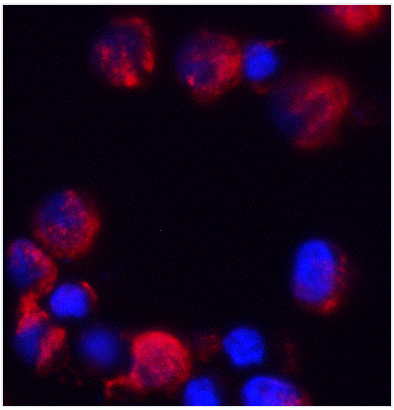
Searchable Terms for C18orf42 purchase	MBS154356 is an antibody targeting C18orf42. Also known as C18orf42 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-C18orf42 antibody
Western blot analysis of C18orf42 in HeLa cell lysate with C18orf42 antibody at 1 ?g/ml.



Immunocytochemistry (IHC) of anti-C18orf42 antibody
Immunocytochemistry of C18orf42 in HeLa cells with C18orf42 antibody at 2 ?g/mL.



Immunofluorescence (IF) of anti-C18orf42 antibody
Immunofluorescence of C18orf42 in HeLa cells with C18orf42 antibody at 2 ?g/mL.Red: C18orf42 Antibody (8471)Blue: DAPI staining

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C18orf42. It may not necessarily be applicable to this product.

NCBI GI #	223633927
NCBI GeneID	642597
NCBI Accession #	NP_001138666
UniProt Primary Accession #	P0CW23
UniProt Related Accession #	P0CW23
GenBank Nucleotide #	NM_001145194.1
NCBI Official Full Name	A-kinase anchor protein C18orf42
NCBI Official Synonym Full Names	A kinase (PRKA) anchor inhibitor 1
NCBI Official Symbol	AKAIN1
NCBI Official Synonym Symbols	C18orf42
UniProt Protein Name	A-kinase anchor protein C18orf42
UniProt Gene Name	C18orf42
UniProt Entry Name	CR042_HUMAN

NCBI Protein Information	A-kinase anchor protein C18orf42
UniProt Comments for C18orf42	AKAIN1: Protein kinase A (PKA)-binding protein. Binds to type II regulatory subunits of protein kinase A (PKA) and may block the A- kinase anchoring protein (AKAP)-mediated subcellular localization of PKA. Binds cAMP-dependent protein kinase (PKA). Interacts specifically with RII-regulatory subunits of PKA (PRKAR2A and PRKAR2B). Chromosomal Location of Human Ortholog: 18p11.31 Molecular Function: protein kinase A binding Biological Process: protein localization
Research Articles on C18orf42	**1.** These findings suggest that C18orf42 may be a novel PKA signaling gene that serves as an endogenous disruptor peptide for PKA-AKAP interactions.
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