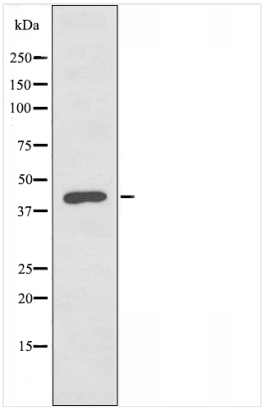
ABHD12 Antibody – Rabbit Polyclonal

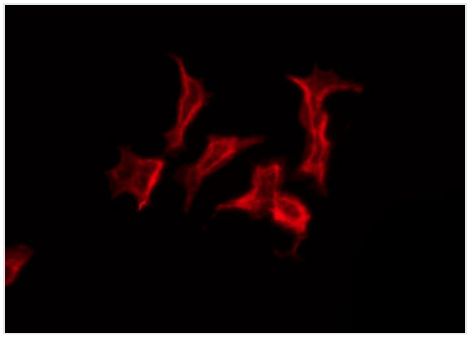
PRODUCT OVERVIEW

Product Name	ABHD12, Polyclonal Antibody
Full Product Name	ABHD12 Antibody
Product Gene Name	anti-ABHD12 antibody
Product Synonym Names	2-arachidonoylglycerol hydrolase; 6330583M11Rik; ABD12_HUMAN; ABHD12; ABHD12A; Abhydrolase domain containing protein 12; Abhydrolase domain-containing protein 12; AI431047; AW547313; BEM46L2; C20orf22; Monoacylglycerol lipase ABHD12; RP23-241M12.2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	ABHD12 antibody detects endogenous levels of total ABHD12
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	ABHD12 peptide (MBS9623890) is used for blocking the activity of ABHD12 antibody (MBS9605173)
Molecular Weight	Observed: 45 kD Predicted: 46 kDa
3D Structure	ModBase 3D Structure for Q8N2K0
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Predicted Cross Reactivity	**Pig, Bovine, Sheep, Dog**
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ABHD12 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-ABHD12 antibody	WB: 1:500-1:1000 IF/ICC: 1:100-1:500

Related Product Information for anti-ABHD12 antibody	Function: Lysophosphatidylserine (LPS) lipase that plays a key role in the central nervous system. Represents a major LPS lipase in the brain (By similarity). May also have a 2-arachidonoylglycerol (2-AG) hydrolase activity and act as a regulator of endocannabinoid signaling pathways. Post-translational Modifications: Glycosylated. Similarity: Belongs to the serine esterase family.
Other Notes	Small volumes of anti-ABHD12 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 ABHD12 purchase	MBS9605173 is an antibody targeting ABHD12. Also known as ABHD12 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ABHD12 antibody
Western blot analysis of extracts from COLO cells, using ABHD12 antibody.



Immunofluorescene (IF) of anti-ABHD12 antibody
MBS9605173 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABHD12. It may not necessarily be applicable to this product.

NCBI GI #	109689718
NCBI GeneID	26090
NCBI Accession #	NP_001035937.1
UniProt Primary Accession #	Q8N2K0
UniProt Secondary Accession #	Q5T710; Q5T711; Q96CR1; Q9BX05; Q9NPX7; Q9UFV6; A6NED4; A6NJ90; A8K450; B4DE71
UniProt Related Accession #	Q8N2K0
GenBank Nucleotide #	NM_001042472.2
NCBI Official Full Name	monoacylglycerol lipase ABHD12 isoform a
NCBI Official Synonym Full Names	abhydrolase domain containing 12
NCBI Official Symbol	ABHD12
NCBI Official Synonym Symbols	PHARC; ABHD12A; BEM46L2; C20orf22; dJ965G21.2
UniProt Protein Name	Monoacylglycerol lipase ABHD12
UniProt Synonym Protein Names	2-arachidonoylglycerol hydrolaseCurated; Abhydrolase domain-containing protein 12Curated
Protein Family	Monoacylglycerol lipase
UniProt Gene Name	ABHD12
NCBI Protein Information	monoacylglycerol lipase ABHD12

NCBI Summary for ABHD12	This gene encodes an enzyme that catalyzes the hydrolysis of 2-arachidonoyl glycerol (2-AG), the main endocannabinoid lipid transmitter that acts on cannabinoid receptors, CB1 and CB2. The endocannabinoid system is involved in a wide range of physiological processes, including neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation. Mutations in this gene are associated with the neurodegenerative disease, PHARC (polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract), resulting from an inborn error of endocannabinoid metabolism. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jan 2011]
UniProt Comments for ABHD12	Lysophosphatidylserine (LPS) lipase that plays a key role in the central nervous system. Represents a major LPS lipase in the brain (). May also have a 2-arachidonoylglycerol (2-AG) hydrolase activity and act as a regulator of endocannabinoid signaling pathways.
Research Articles on ABHD12	**1.** This study presented the various mutation of ABHD12 responsible for PHARC syndrome.
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