

Recombinant Full Length Human ABHD12 Protein, GST-tagged

Cat. No. ABHD12-828HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABHD12 full-length ORF (NP_056415.1, 1 a.a. - 404 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	404 amino acids
Description	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]
Molecular Mass	72 kDa
AA Sequence	MRKRTEPVAL EHERCAAAGS SSSGSAAAAL DADCRLKQNL RLTGPAAAEP RCAADAGMKR ALGRRKGVWL RLRKILFCVL GLYIAIPFLI KLCPGIQAKL IFLNFVRVPY FIDLKKPQDQ GLNHTCNYL QPEEDVTIGV WHTVPAVWWK NAQGDQMWY EDALASSHPI ILYLHGNAGT RGGDHRVELY KVLSSLGYHV

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VTFDYRGWGD SVGTPSERGM TYDALHVFDW IKARSGDNPV YIWGHSLGTG
 VATNLVRRLC ERETPPDALI LESPFTNIRE EAKSHPF SVI YRYFPGFDWF
 FLDPITSSGI KFANDENVKH ISCPILLIHA EDDPVVPPQL GRKLYSIAAP
 ARSFRDFKVQ FVPFHSDLGY RHKYIYKSPE LPRILRPQQG PGSSPDPSMW SELV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ABHD12 abhydrolase domain containing 12 \[Homo sapiens \]](#)

Official Symbol [ABHD12](#)

Synonyms ABHD12; abhydrolase domain containing 12; C20orf22, chromosome 20 open reading frame 22; monoacylglycerol lipase ABHD12; ABHD12A; BEM46L2; dJ965G21.2; DKFZP434P106; 2-arachidonoylglycerol hydrolase; abhydrolase domain-containing protein 12; PHARC; C20orf22; DKFZp434P106;

Gene ID [26090](#)

mRNA Refseq [NM_001042472](#)

Protein Refseq [NP_001035937](#)

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MIM	613599
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UniProt ID	Q8N2K0
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