

Recombinant Full Length Human ABHD12 Protein, GST-tagged

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

SPECIFICATION

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| 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 FIDLKPKQDQ GLNHTCNYYL QPEEDVTIGV WHTVPAVWWK NAQGDQMWY EDALASSHPI ILYLHGNAGT RGGDHRVELY KVLSSLGYHV |

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VTFDYRGWGD SVGTPSERGM TYDALHVFDW IKARSGDNPV YIWGHSLGTG
VATNLVRRLC ERETPDALI LESPFTNIRE EAKSHPFVSVI YRYFPGFDWF
FLDPITSSGI KFANDENVKH ISCPILLIHA EDDPVVPPQL GRKLYSIAAP
ARSRDFKVQ 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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