

## Product Information

### **MemDX™ Membrane Protein Human ABHD12 (Abhydrolase domain containing 12, lysophospholipase) Full Length**

Cat. No.: **MPC4612K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ABHD12 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

ABHD12

##### Protein Length

Full length

##### Protein Class

Receptor

##### TMD

1

##### Sequence

MRKRTEPVALEHERCAAAGSSSSSGSAAAAALDADCRLKQNLRLTGPAAAEP  
RCAADAGMKRALGRRKGWLRRLRKILFCVLGLYIAIPFLIKLCPGIQAKL  
IFLNFRVPYFIDLKKPQDQGLNHTCNYYLQPEEDVTIGVWHTVPAVWWK  
NAQGKDQMWYEDALASSHPILYLHGNAGTRGGDHRVELYKVLSSLGYHV  
VTFDYRGWGDVSGTPSERGMTYDALHVFDWIKARSGDNPVYIWGHS LGTG  
VATNLVRRLCERETPPDALILESPFTNIREEAKSHPF SVIYRYFPGFDWF  
FLDPITSSGIKFANDENVKHISCPLLILHAEDDPVVPFQLGRKLYSIAAP  
ARSFRDFKVQFVPFHS DLGYRHKYIYKSP ELPRI LREFLGKSEPEHQH

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

ABHD12

**Full Name**

Abhydrolase domain containing 12, lysophospholipase

**Introduction**

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.

**Alternative Names**

ABHD12; PHARC; ABHD12A; BEM46L2; hABHD12; C20orf22; dJ965G21.2; lysophosphatidylserine lipase ABHD12; 2-arachidonoylglycerol hydrolase ABHD12; abhydrolase domain-containing protein 12; monoacylglycerol lipase ABHD12; oxidized phosphatidylserine lipase ABHD12; Abhydrolase domain containing 12, lysophospholipase

**Gene ID**

[26090](#)

**UniProt ID**

[Q8N2K0](#)