

## Recombinant Human ABHD2 Protein, C-Myc/DDK-tagged

Cat. No. ABHD2-02H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant protein of human abhydrolase domain containing 2 (ABHD2), transcript variant 2 with a C-Myc/DDK tag was expressed in HEK293T.

**Species** Human

**Source** HEK293

**Description** This gene encodes a protein containing an alpha/beta hydrolase fold, which is a catalytic domain found in a wide range of enzymes. The encoded protein is an acylglycerol lipase that catalyzes the hydrolysis of endocannabinoid arachidonoylglycerol from the cell membrane. This leads to activation of the sperm calcium channel CatSper, which results in sperm activation. Alternative splicing of this gene results in two transcript variants encoding the same protein.

**Molecular Mass** 48.1 kDa

**AA Sequence**

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MNAMLETPELPAVFDGVKLAAVAALYVIVRCLNLKSPTAPPDLYFQDSGLSRFLLKS
CPLLTKKEYIPPLIWGKSGHIQTALYGKMGRVRSHPYGHRKFITMSDGATSTFDLFEP
LAEHCVGDDITMVICPGIANHSEKQYIRTFVDYAQKNGYRCAVLNHLGALPNIELTSP
RMFTYGCTWEFGAMVNYIKKTYPLTQLVVVGFSLGGNIVCKYLGETQANQEKVLCC
VSVCQGYALSRAQETFMQWDQCRRFYNFLMADNMKKIILSHRQALFGDHVKKPQS
LEDTDLSRLYTATSLMQIDDNVMRKFHGYNSLKEYEEEEESCMRYLHRIYVPLMLVNA
ADDPLVHESLLTIPKSLSEKRENVMFVPLPHGGHLGFFEGSVLFPEPLTWMDKLVVE
YANAICQWERNKLQCSDEQVEADLETRTRPLEQKLISEEDLAANDILDYKDDDDKV

```

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Applications</b>	Cell culture: For culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

## GENE INFORMATION

<b>Gene Name</b>	ABHD2 abhydrolase domain containing 2, acylglycerol lipase [ Homo sapiens (human) ]
<b>Official Symbol</b>	ABHD2
<b>Synonyms</b>	ABHD2; abhydrolase domain containing 2, acylglycerol lipase; HS1-2; LABH2; PHPS1-2; monoacylglycerol lipase ABHD2; 2-arachidonoylglycerol hydrolase; abhydrolase domain-containing protein 2; acetylerase; alpha/beta hydrolase domain containing protein 2; lung alpha/beta hydrolase 2; progesterone-sensitive lipase; protein PHPS1-2; testicular tissue protein Li 6; EC 3.1.1.23; EC 3.1.1.6; EC 3.1.1.79
<b>Gene ID</b>	11057
<b>mRNA Refseq</b>	NM_152924

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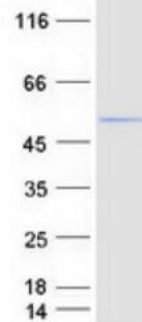
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**Protein Refseq** NP\_690888

**MIM** 612196

**UniProt ID** P08910

**SDS-PAGE**



Coomassie blue staining of purified ABHD2 protein. The protein was produced from HEK293T cells transfected with ABHD2 cDNA clone using MegaTran 2.0.

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