

Recombinant Human AMIGO2, His-tagged

Cat. No. AMIGO2-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Amphoterin-Induced Protein 2/AMIGO2 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Val40-His393) of Human AMIGO2 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	40-393 a.a.
Description	Amphoterin-Induced Protein 2 (AMIGO2) is a single-pass type I membrane protein which belongs to the AMIGO family of immunoglobulin superfamily. Mature AMIGO2 contains an Ig-like C2-type (immunoglobulin-like) domain, 6 LRR (leucine-rich) repeats, a LRRCT domain, as well as a LRRNT domain. AMIGO2 is mainly expressed in breast, ovary, cervix, and uterus, although lower in lung, colon, and rectum. AMIGO2 required for depolarization-dependent survival of cultured cerebellar granule neurons. AMIGO2 may mediate homophilic as well as heterophilic cell-cell interaction with AMIGO1 or AMIGO3. AMIGO2 may contribute to signal transduction through its intracellular domain, and may be required for tumorigenesis of a subset of gastric adenocarcinomas.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.2
AA Sequence	VCPTACICATDIVSCTNKNLSKVPGNLFRLIKRLDLSYNRIGLLDSEWIPVSFAKLNTLI

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LRHNN ITSISTGSFSTTPNLKCLDLSSNKLKTVKNAVFQELKVLEVLLLYNNHISYLDP
SAFGGLSQLQK LYLSGNFLTQFPMDLYVGRFKLAELMFLDVSYNRIPSMPPMHINLV
PGKQLRGIYLLHGNPFV CDC SLYSLLVFWYRRHFSSVMDFKNDYTCRLWSDSRHSR
QVLLLQDSFMNCSDSIINGSFRALGFIHE AQVGERLMVHCDSKTGNANTDFIWVGP
DNRLLEPDKEMENFYVFHNGSLVIESPRFEDAGVYSCI AMNKQRLNETVDVTINVS
NFTVSRSHAHVDHHHHHH

Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	AMIGO2 adhesion molecule with Ig-like domain 2 [Homo sapiens]
Official Symbol	AMIGO2
Synonyms	AMIGO2; adhesion molecule with Ig-like domain 2; amphoterin-induced protein 2; ALI1; amphoterin induced gene and open reading frame 2; DEGA; alivin 1; amphoterin induced gene 2; transmembrane protein AMIGO2; differentially expressed in gastric adenocarcinoma; differentially expressed in gastric adenocarcinomas; AMIGO-2;

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Gene ID	347902
mRNA Refseq	NM_181847
Protein Refseq	NP_862830
UniProt ID	Q86SJ2
Chromosome Location	12q13.11

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