

Recombinant Human ADAM12 Protein

Cat. No. ADAM12-538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADAM12 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	909
Description	This gene encodes a member of a family of proteins that are structurally related to snake venom disintegrins and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. Expression of this gene has been used as a maternal serum marker for pre-natal development. Alternative splicing results in multiple transcript variants encoding different isoforms. Shorter isoforms are secreted, while longer isoforms are membrane-bound form.
Form	Lyophilized
Molecular Mass	55.2 kDa (Proprotein), 34.5 kDa(mature-form) & 20.1 kDa (propeptide)
AA Sequence	MAARPLPVSPARALLLAGALLAPCEARGVSLWNQGRADEVVSASVSGSDLWIPV KSFDSKNHPEVLNIRLQRESKELIINLERNEGLIASSFTETHYLQDGTDVSLARNYTVI LGHCYYHGHVIRGYSDSAVSLSTCSGLRGLIVFENESYVLEPMKSATNRYKLFPAKKL KSVRGSCGSHHNTPNLAAKNVFPPPSQTWARRHKRETLKATKYVELVIVADNREFQ RQGKDLEKVKQRLIEIANHVDKFYRPLNIRIVLVGVEVWNDMDKCSVSQDPFTSLHE

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FLDWRKMKLLPRKSHDNAQLVSGVYFQGTIGMAPIMSMCTADQSGGIVMDHSDN
 PLGAAVTLAHELGHNFNMHDTLDRGCSCQMAVEKGGCINASTGYPPFPMVFSSC
 SRKDLETSLEKGMGVCLFNLPEVRESFGGQKCGNRFVEEGEECDCEPEECMNR
 CCNATTCTLKPDVCAHGLCCEDCQLKPAGTACRDSSNSCDLPEFCTGASPHCPA
 NVYLHDGHSCQDVDGYCYNGICQTHEQQCVTLWGPAGKAPAGICFERVNSAGDPY
 GNCCKVSKSSFAKCEMRDAKCGKIQCGGASRPVIGTNAVSIETNIPLQQGGRILCR
 GTHVYLGDDMPDPGLVLAGTKCADGKICLNRCQNISVFGVHECAMQCHGRGVCN
 NRKNCHCEAHWAPPFCDFGFGGSTDSGPIRQADNQGLTIGILVTILCLLAAGFVVY
 LKRKTLIRLLFTNKKTTIEKLRCVRPSRPPRGFQPCQAHLGHLGKGLMRKPPDSYPP
 KDNPRLLQCQNVDISRPLNGLNVPQPQSTQRVLPPLHRAPRAPSVPARPLPAKPA
 LRQAQGTCKPNPPQKPLPADPLARTTRLTHALARTPGQWETGLRLAPLRPAPQYPH
 QVPRSTHTAYIK

Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal

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performance.

GENE INFORMATION

Gene Name	ADAM12 ADAM metallopeptidase domain 12 [Homo sapiens (human)]
Official Symbol	ADAM12
Synonyms	ADAM12; ADAM metallopeptidase domain 12; a disintegrin and metalloproteinase domain 12 (meltrin alpha); disintegrin and metalloproteinase domain-containing protein 12; MCMPMItna; meltrin alpha; MLTN; meltrin-alpha; MCMP; MLTNA;
Gene ID	8038
mRNA Refseq	NM_003474
Protein Refseq	NP_003465
MIM	602714
UniProt ID	O43184

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