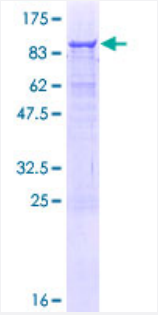
Full-Length

AMBN (Human) Recombinant Protein (P01)

Catalog # H00000258-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AMBN full-length ORF (NP_057603.1, 1 a.a. - 447 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSASKIPLFKMKDLILILCLLEMSFAVPFFPQQSGTPGMASLSLETMRQLGSLQRLNTLSQYSRYG FGKSFNSLWMHGLLPPHSSLPWMRPREHETQQYEYSLPVHPPPLPSQPSLKPQQPGLKPFLQS AAATTNQATALKEALQPPIHLGHLPLQEGELPLVQQQVAPSDKPPKPELPGVDFADPQGPSLPG MDFPDPQGPSLPGLDFADPQGSTIFQIARLISHGPMPQNKQSPLYPGMLYVPFGANQLNAPARLG IMSSEEVAGGREDPMAYGAMFPGFGGMRPGFEGMPHNPAMGGDFTLEFDSPVAATKGPENEE GGAQGSPMPEANPDNLENPAFLTELEPAPHAGLLALPKDDIPGLPRSPSGKMKGLPSVTPAAAD PLMTPELADVYRTYDADMTTSVDFQEEATMDTTMAPNSLQTSMPGNKAQEPEMMHDAWHFQE P
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	74.7
Interspecies Antigen Sequence	Mouse (58); Rat (61)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AMBN

Entrez GeneID	258
GeneBank Accession#	NM_016519.4
Protein Accession#	NP_057603.1
Gene Name	AMBN
Gene Alias	-
Gene Description	ameloblastin (enamel matrix protein)
Omim ID	601259
Gene Ontology	Hyperlink
Gene Summary	Ameloblastin is thought to represent an unique ameloblast-specific gene product that may be imp ortant in enamel matrix formation and mineralization. The gene is located on chromosome 4 near other genes associated with mineralized tissues: osteopontin, bone sialoprotein, and bone morph ogenetic protein 3. Based on its cytogenetic location, this gene is a candidate gene for one form of the disorder, dentinogenesis imperfecta, and/or the disorder, autosomal dominant amylogenes is imperfecta. [provided by RefSeq
Other Designations	ameloblastin

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Publication Reference

- Ameloblastin attenuates RANKL-mediated osteoclastogenesis by suppressing activation of nuclear factor of activated T-cell cytoplasmic 1 (NFATc1).

  Chaweewannakorn W, Ariyoshi W, Okinaga T, Fujita Y, Maki K, Nishihara T.

  Journal of Cellular Physiology 2018 Aug; [Epub].

  Application: Pretreated, Recombinant protein

- Protein Interaction between Ameloblastin and Proteasome Subunit α Type 3 Can Facilitate Redistribution of Ameloblastin Domains within Forming Enamel.

  Geng S, White SN, Paine ML, Snead ML.

  The Journal of Biological Chemistry 2015 Aug; 290(34):20661.

  Application: WB, Mouse, Ameloblast cells

Disease

- Dental Caries

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