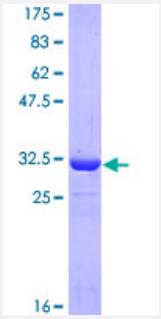
ATOX1 (Human) Recombinant Protein (Q01)

Catalog # H00000475-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATOX1 partial ORF (NP_004036, 1 a.a. - 68 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKVCIESEHSMDTLLATLKKTGKTVSYLGLE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	33.22
Interspecies Antigen Sequence	Mouse (88); Rat (89)
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.
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 — ATOX1

Entrez GeneID	475
GeneBank Accession#	NM_004045
Protein Accession#	NP_004036
Gene Name	ATOX1
Gene Alias	ATX1, HAH1, MGC138453, MGC138455
Gene Description	ATX1 antioxidant protein 1 homolog (yeast)
Omim ID	602270
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and tr ansporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation t o the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydroge n peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cyt ogenetic location, this gene represents a candidate gene for 5q-syndrome. [provided by RefSeq
Other Designations	antioxidant protein 1|copper transport protein|metal transport protein

Disease

- Genetic Predisposition to Disease
- Hepatolenticular Degeneration