

BOLA1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58998

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9Y3E2
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14289
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BOLA1
Epitope Specificity	1-100/137
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. Could be secreted via a non-classical export pathway.
SIMILARITY	Belongs to the bolA/yrbA family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	BOLA1 (BolA-like protein 1), also known as CGI-143, is a member of the BolA/yrbA family of proteins. Members of this family are homologs of the Escherichia coli protein, BolA. BolA-like proteins are evolutionarily conserved from prokaryotes to eukaryotes and are believed to play a role in cell-cycle regulation or cell proliferation possibly via some sort of transcription regulation of other genes. In addition, BolA-like proteins may contain nucleic-acid binding properties, as is suggested by a fold structure that is similar to the KH-fold, a motif known to participate in nucleic-acid binding. Characteristic of BolA-like proteins which typically consist of approximately 100 amino acids, BOLA1 is a 137 amino acid protein.

Additional Information

Gene ID	51027
Other Names	BolA-like protein 1, hBolA, BOLA1 (HGNC:24263)
Target/Specificity	Widely expressed.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	BOLA1 (HGNC:24263)
Function	Acts as a mitochondrial iron-sulfur (Fe-S) cluster assembly factor that facilitates (Fe-S) cluster insertion into a subset of mitochondrial proteins (By similarity). Probably acts together with the monothiol glutaredoxin GLRX5 (PubMed: 27532772). May protect cells against oxidative stress (PubMed: 22746225).
Cellular Location	Mitochondrion.
Tissue Location	Widely expressed..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.