For Research Use Only

ATOX1 Recombinant antibody

Catalog Number:83785-6-RR



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

83785-6-RR BC112248 Protein A purfication

GeneID (NCBI): Size: CloneNo.: 100ul, Concentration: 1000 ug/ml by 475 240679E9

Nanodrop: **UNIPROT ID:** Recommended Dilutions: 000244 WB 1:5000-1:50000

Rabbit Full Name:

Isotype: ATX1 antioxidant protein 1 homolog

IgG (veast)

Immunogen Catalog Number: Calculated MW: AG18460 68 aa, 8 kDa

Observed MW: 7 kDa

Applications

Tested Applications: Positive Controls: WB, FC (Intra), ELISA

WB: A375 cells, A549 cells, HEK-293 cells, NCI-H1299 Species Specificity:

cells, HepG2 cells, Jurkat cells

Background Information

Antioxidant 1 (ATOX1) is a copper chaperone to regulate copper homeostasis in cell. In the cytosol, ATOX1 always binds to copper and transfer to ATPase proteins in the trans-Golgi network, thereby promoting copper supply to various copper-dependent oxidereductases matured within the secretory vesicles (PMID: 28294521). Also, the protein could protect cells against oxidative damage and the expression levels of ATOX1 may help to the inflammatory response and antioxidant defense, even to modulate response to the cancer (PMID: 27472369). ATOX1 plays an important role in the physiology of the human central nervous system, and it's highly expressed in the cerebral cortex and hippocampus (PMID: 30545441). Either cytosol or nucleus location of ATOX1 has been reported in different literations, which may be associated with cell status (PMID: 24445997; 31317143).

Storage

Storage:

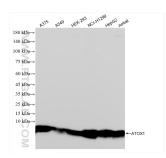
Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

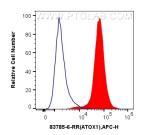
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

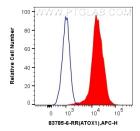
Selected Validation Data



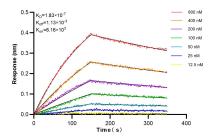
Various lysates were subjected to SDS PAGE followed by western blot with 83785-6-RR (ATOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 burs.



1x10^6 PC-3 cells were intracellularly stained with 0.25 ug ATOX1 Recombinant antibody (83785-6-RR, Clone:240679E9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug ATOX1 Recombinant antibody (83785-6-RR, Clone:240679E9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLL) kinetic assays of 83785-6-RR against Human ATOX1 were performed. The affinity constant is 183 nM.