

Anti-ELG-1 ATAD5 Antibody

Catalog Number: A06674

About ATAD5

ELG1 (also known as ATP(GTP)-binding protein or Chromosome fragility associated gene 1) is involved in a novel RFC complex that is probably involved in DNA damage and repair by ensuring replication fidelity. This antibody detects a band at about 120kDa in HeLa, A431, Jurkat and HEK193 cells. This corresponds to the band size seen in Kanellis P et al. It remains unclear why the band size detected is much less than the 207kDa predicted in the protein sequence corresponding to CACC44537.2 (Q96QE3), but as our results correspond to those seen in Kanellis P et al. it is likely that the 120 kDa target is ELG1.

Overview

Product Name	Anti-ELG-1 ATAD5 Antibody
Reactive Species	Human
Description	Boster Bio Anti-ELG-1 ATAD5 Antibody (Catalog # A06674). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q96QE3

Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 63-76 of Human Elg 1.
Predicted Reactive Species	Canine, Chimpanzee, Orangutan
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	0.50 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human Elg1 protein. The product was affinity

purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis of the immunogen suggest full to partial reactivity with several hypothetical proteins. This is not unexpected for such a novel protein. The following proteins should be considered to be highly homologous to Elg1 when using this antibody: human chromosome fragility associated gene 1 (NP_079133), hypothetical dog protein FLJ12735 (XP_548276), hypothetical chimpanzee protein FLJ12735 (XP_511388), and a hypothetical human protein of 1224 residues (CAH10412). All show 100% homology to the immunogen. Reactivity against homologues from other sources is not known.

Suggested Dilutions

ELISA: 1:3,000 - 1:15,000
WB: 1:500 - 1:2,000

Anti-ELG-1 ATAD5 Antibody (A06674) Images

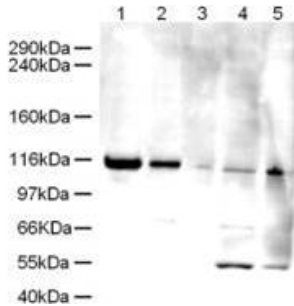


Figure 1. Western blot analysis of ATAD5 using anti-ATAD5 antibody (A06674).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATAD5 antigen affinity purified polyclonal antibody (Catalog # A06674) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for ATAD5.

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