

Datasheet for 600-401-688**ELG-1 Antibody****Overview**

Description:	Anti-Human ELG-1 (RABBIT) Antibody - 600-401-688
Item No.:	600-401-688
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	rabbit anti-ELG-1 antibody, ELG1, ELG 1, FRAG1, ATP (GTP)-binding protein, ATPase Family AAA Domain-Containing Protein 5, Chromosome fragility associated gene 1 protein, ATAD5, C17orf41
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATAD5
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
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.

Purity/Specificity:	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.
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Relevant Links:	• UniProtKB - Q96QE3 • NCBI - 21615526 • GeneID - 79915
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Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 120 kDa in size corresponding to Elg1 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:3,000 - 1:15,000
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.50 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

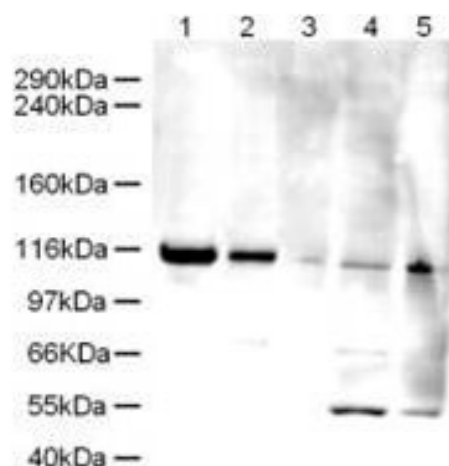
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's Affinity Purified anti-Elg1 antibody shows detection of a band ~120 kDa corresponding to human Elg1 in various cell lysates. Lane 1: HeLa nuclear extract (p/n W09-001-367), Lane 2: HeLa (p/n W09-000-364), Lane 3: A431 (p/n W09-000-361), Jurkat (p/n W09-001-370) and Lane 5: HEK293 (p/n W09-000-365) whole cell lysates. Load: ~5µg per lane. After SDS-PAGE, transfer and blocking, the membrane was probed with the primary antibody diluted to 1:500. The membrane was then washed and reacted with a HRP conjugated Gt-a-Rabbit IgG [H&L] MX followed by ECL detection using a 2 m exposure time. The expected molecular weight of Elg1 is 120kDa according to Kanellis P et al. 2003, although the predicted molecular weight is 207 kDa. The 50kDa bands in Jurkat and 293 cell lysates are probably cross-reaction with other proteins. Both the 120 kDa and 50 kDa bands are not observed when antibody is pre-incubated with peptide (data not shown).

Disclaimer

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