

Rabbit ELK1 Polyclonal Antibody | anti-ELK1 antibody

Anti-ELK1 Antibody Picoband

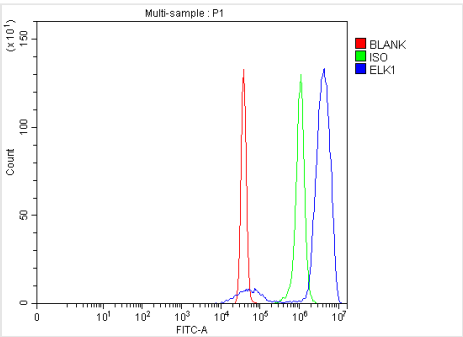
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126141	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

ELK1; Polyclonal Antibody; Anti-ELK1 Antibody Picoband; anti-ELK1 antibody

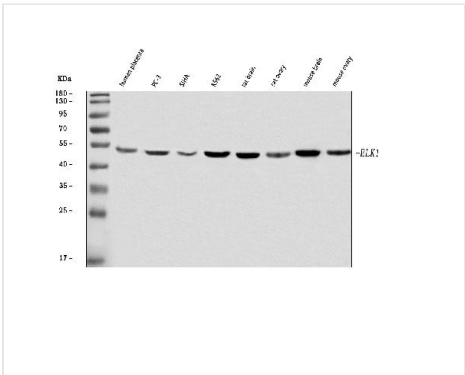
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CSPG5
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ELK1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-ELK1 antibody (AAA126141).Overlay histogram showing SiHa cells stained with AAA126141 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ELK1 Antibody (AAA126141, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of ELK1 using anti-ELK1 antibody (AAA126141).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 30 ug of sample under reducing conditions.Lane 1: human placenta tissue lysates,Lane 2: human PC-3 whole cell lysates,Lane 3: human SiHa whole cell lysates,Lane 4: human K562 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat ovary tissue lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse ovary tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-ELK1 antigen affinity purified polyclonal antibody (#AAA126141) at 0.5 ug/mL overnight at 4 degree 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ELK1 at approximately 50 kDa. The expected band size for ELK1 is at 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ELK1 antibody	Background: Chondroitin sulfate proteoglycan 5 is a protein that in humans is encoded by the CSPG5 gene. The protein encoded by this gene is a proteoglycan that may function as a neural growth and differentiation factor. Several transcript variants encoding different isoforms have been found for this gene. Principle of the Assay: The Picokine™ Human CSPG5 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CSPG5 with a 96-well strip plate that is pre-coated with antibody specific for CSPG5. The detection antibody is a biotinylated antibody specific for CSPG5. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CSPG5 with immunogen: Expression system for standard: CHO; Immunogen sequence: V31-Q420. The kit is analytically validated with ready-to-use reagents. To measure Human CSPG5, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CSPG5 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CSPG5 in the sample.
Product Categories/Family for anti-ELK1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	166362732
NCBI GeneID	2002
NCBI Accession #	NP_001107595.1
NCBI GenBank Nucleotide #	NM_001114123.2

UniProt Accession #	P19419; O75606; O95058; Q969X8; Q9UJM4; B2R7H4
Molecular Weight	44,888 Da
NCBI Official Full Name	ETS domain-containing protein Elk-1 isoform a
NCBI Official Synonym Full Names	ELK1, member of ETS oncogene family
NCBI Official Symbol	ELK1
NCBI Protein Information	ETS domain-containing protein Elk-1; ETS-like gene 1; tyrosine kinase (ELK1) oncogene
UniProt Protein Name	ETS domain-containing protein Elk-1
UniProt Gene Name	ELK1
UniProt Entry Name	ELK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/elk1-antibody-flow-cytometry-western-blot-elisa/126141>