

Rabbit anti-Human c-Fos/FOS Polyclonal Antibody | anti-FOS antibody

Anti-c-Fos/FOS Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125538	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

c-Fos/FOS; Polyclonal Antibody; Anti-c-Fos/FOS Antibody; FOS; G0S7; Proto-oncogene c-Fos; Cellular oncogene fos; G0/G1 switch regulatory protein 7; Fos proto-oncogene; AP-1 transcription factor subunit; anti-FOS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for c-Fos/FOS detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-FOS antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human c-Fos/FOS recombinant protein (Position: N45-D293).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-c-Fos/FOS antibody (AAA125538). Overlay histogram showing SiHa cells stained with AAA125538 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-c-Fos/FOS Antibody (AAA125538, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/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 c-Fos/FOS using anti-c-Fos/FOS antibody (AAA125538). 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. Lane 1: human HeLa whole cell lysates Lane 2: human Jurkat whole cell lysates Lane 3: human Sh-sy5y whole cell lysates Lane 4: human A549 whole cell lysates. 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-c-Fos/FOS antigen affinity purified polyclonal antibody (Catalog # AAA125538) at 0.5 µg/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 c-Fos/FOS at approximately 50KD. The expected band size for c-Fos/FOS is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-FOS antibody	The human oncogene c-fos is cellular homolog of the transforming gene of Finkel-Biskis-Jinkins(FBJ) murine osteosarcoma virus which was mapped to a single human chromosome. c-Fos is encoded by the FOS gene. FOS was the first transcription factor identified that has a critical function in regulating the development of cells destined to form and maintain the skeleton. FOS is also a major component of the activator protein-1(AP-1) transcription factor complex, which includes members of the JUN family. c-fos is a major nuclear target for signal transduction pathways involved in the regulation of cell growth, differentiation, and transformation. Using transgenic and knockout mice, Grigoriadis et al. (1995) established a unique role for the proto-oncogene and nuclear transcription factor, Fos, in regulating the differentiation and activity of specific bone cell populations, both during normal development and in bone disease.
References	1. Barker, P. E.; Rabin, M.; Watson, M.; Breg, W. R.; Ruddle, F. H.; Verma, I. M. : Human c-fos oncogene mapped within chromosomal region 14q21-q31. Proc. Nat. Acad. Sci. 81: 5826-5830, 1984. 2. Saez, E.; Rutberg, S. E.; Mueller, E.; Oppenheim, H.; Smoluk, J.; Yuspa, S. H.; Spiegelman, B. M. : c-fos is required for malignant progression of skin tumors. Cell 82: 721-732, 1995. 3. Grigoriadis, A. E.; Wang, Z. -Q.; Wagner, E. F. : Fos and bone cell development: lessons from a nuclear oncogene. Trends Genet. 11: :436-441, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885241
NCBI GeneID	2353
NCBI Accession #	NP_005243.1
NCBI GenBank Nucleotide #	NM_005252.3
UniProt Accession #	P01100; P18849
Molecular Weight	40,695 Da
NCBI Official Full Name	proto-oncogene c-Fos
NCBI Official Synonym Full Names	FBJ murine osteosarcoma viral oncogene homolog
NCBI Official Symbol	FOS
NCBI Official Synonym Symbols	p55; AP-1; C-FOS
NCBI Protein Information	proto-oncogene c-Fos; activator protein 1; cellular oncogene c-fos; G0/G1 switch regulatory protein 7; FBJ murine osteosarcoma viral (v-fos) oncogene homolog (oncogene FOS)
UniProt Protein Name	Proto-oncogene c-Fos
UniProt Gene Name	FOS
UniProt Synonym Gene Names	G0S7
UniProt Entry Name	FOS_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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