FOS Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FOS, Monoclonal Antibody
Full Product Name	FOS (v-fos FBJ murine Osteosarcoma Viral Oncogene Homolog, AP-1, C-FOS) (HRP)
Product Gene Name	anti-FOS antibody
Product Synonym Names	v-fos FBJ murine Osteosarcoma Viral Oncogene Homolog; AP-1; C-FOS
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2C9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes FOS.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,695 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (75745481..75748937). Location: 14q24.3
OMIM	164810
3D Structure	ModBase 3D Structure for P01100
Immunogen	FOS (NP_005243.1, 1aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MMFSGFNADYEASSSRCSSASPAGDSLSYYHSPADSFSSMGSPVNAQDFCTDLAVSSANFIPTVTAISTSPDLQWLVQPALVSSVAPSQTRAPHPFGVP
Conjugate	HRP
Product Categories/Family for anti-FOS antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-FOS antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-FOS antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-FOS antibody	MBS6183270 is an antibody targeting FOS. Also known as FOS (v-fos FBJ murine Osteosarcoma Viral Oncogene Homolog, AP-1, C-FOS) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-FOS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOS. It may not necessarily be applicable to this product.

NCBI GI #	4885241
NCBI GeneID	2353
NCBI Accession #	NP_005243.1
UniProt Primary Accession #	P01100
UniProt Secondary Accession #	P18849
UniProt Related Accession #	P01100
GenBank Nucleotide #	NM_005252.3
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
UniProt Protein Name	Proto-oncogene c-Fos
UniProt Synonym Protein Names	Cellular oncogene fos; G0/G1 switch regulatory protein 7
Protein Family	Proto-oncogene
UniProt Gene Name	FOS
UniProt Synonym Gene Names	G0S7
UniProt Entry Name	FOS_HUMAN
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)
NCBI Summary for FOS	The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]

UniProt Comments for FOS	Fos: a proto-oncogenic transcription factor of the bZIP family. Dimerizes with proteins of the JUN family, thereby forming the transcription factor complex AP-1. FOS proteins function as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of FOS has also been associated with apoptotic cell death. Expression increases upon a variety of stimuli, including growth factors, cytokines, neurotransmitters, polypeptide hormones, stress and cell injury. Protein type: Motility/polarity/chemotaxis; DNA-binding; Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: nucleoplasm; transcription factor complex; neuron projection; membrane; endoplasmic reticulum; nucleus; cytosol Molecular Function: protein binding; double-stranded DNA binding; transcription factor activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; response to gravity; response to cAMP; positive regulation of osteoclast differentiation; response to toxin; positive regulation of transcription, DNA-dependent; stress-activated MAPK cascade; response to lipopolysaccharide; toll-like receptor 3 signaling pathway; female pregnancy; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription factor activity; transforming growth factor beta receptor signaling pathway; conditioned taste aversion; DNA methylation; inflammatory response; toll-like receptor 4 signaling pathway; aging; response to corticosterone stimulus; response to drug; response to light stimulus; nervous system development; MyD88-independent toll-like receptor signaling pathway; sleep; cellular response to hormone stimulus; toll-like receptor 2 signaling pathway; regulation of transcription from RNA polymerase II promoter; MyD88-dependent toll-like receptor signaling pathway; response to mechanical stimulus; response to cytokine stimulus; cellular response to extracellular stimulus; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; response to cold; response to progesterone stimulus
Research Articles on FOS	**1.** PAX2 protein induces expression of cyclin D1 through activating AP-1 protein and promotes proliferation of colon cancer cells.
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