

## Fra-1 Conjugated Antibody

Catalog No: #C33684



Package Size: #C33684-AF350 100ul #C33684-AF405 100ul #C33684-AF488 100ul  
 #C33684-AF555 100ul #C33684-AF594 100ul #C33684-AF647 100ul  
 #C33684-AF680 100ul #C33684-AF750 100ul #C33684-Biotin 100ul

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## Description

Product Name	Fra-1 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total Fra-1 protein.
Immunogen Description	Synthesized peptide derived from internal of human Fra-1.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	FOSL1;FRA-1;Fos-related antigen 1
Accession No.	Swiss-Prot#:P15407NCBI Gene ID:8061
Uniprot	P15407
GeneID	8061;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	43
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Product Description

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The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Background

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an oncogenic transcription factor of the bZIP family, Fos subfamily. The expression of Fos proteins is rapidly and transiently induced by a variety of extracellular stimuli including growth factors, cytokines, neurotransmitters, polypeptide hormones, and stress. Fos proteins dimerize with Jun proteins (c-Jun, JunB, and JunD) to form Activator Protein-1 (AP-1), a transcription factor that binds to TRE/AP-1 elements and activates transcription. Fos and Jun proteins contain the leucine-zipper motif that mediates dimerization and an adjacent basic domain that binds to DNA. The various Fos/Jun heterodimers differ in their ability to transactivate AP-1 dependent genes. In addition to increased expression, phosphorylation of Fos proteins by Erk kinases in response to extracellular stimuli may further increase transcriptional activity. Following growth factor stimulation, expression of FosB and c-Fos in quiescent fibroblasts is immediate but short-lived, while FRA1 and FRA2 expression persists longer. FRA1 is involved in cell motility, invasiveness, and inhibits apoptosis. Elevated in many cancers and associated with tumorigenesis and cancer progression. Involved in Erk2-mediated Epithelial-to-Mesenchymal Transition (EMT) pathway. ERK2/FRA2 regulate ZEB1/2 expression, known to be associated with the EMT. Smad2/3-Fra1 complexes may reflect activation of the Smad/AP-1-dependent TGF $\beta$ -induced breast cancer invasion program. Activation of FRA1/C-JUN by ERK/AKT pathways can induce EZH2 overexpression, silencing integrin alpha-2 expression, and increasing the metastatic potential of colorectal cancer. Belongs to the bZIP family.

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Note: This product is for in vitro research use only