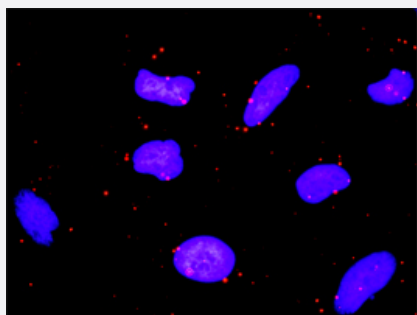


ATF4 & FOS Protein Protein Interaction Antibody Pair

Catalog # DI0361

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between ATF4 and FOS. HeLa cells were stained with anti-ATF4 rabbit purified polyclonal antibody 1:1200 and anti-FOS mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the ATF4 protein, and the other against the FOS protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between ATF4 and FOS. HeLa cells were stained with anti-ATF4 rabbit purified polyclonal antibody 1:1200 and anti-FOS mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. ATF4 rabbit purified polyclonal antibody (100 ug)
2. FOS mouse monoclonal antibody (40 ug)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — ATF4

Entrez GeneID	468
Gene Name	ATF4
Gene Alias	CREB-2, CREB2, TAXREB67, TXREB
Gene Description	activating transcription factor 4 (tax-responsive enhancer element B67)
Omim ID	604064
Gene Ontology	Hyperlink
Gene Summary	<p>This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication. [provided by RefSeq]</p>
Other Designations	activating transcription factor 4 cAMP response element-binding protein 2

Gene Info — FOS

Entrez GeneID	2353
Gene Name	FOS
Gene Alias	AP-1, C-FOS
Gene Description	v-fos FBJ murine osteosarcoma viral oncogene homolog
Omim ID	164810
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

FBJ murine osteosarcoma viral (v-fos) oncogene homolog (oncogene FOS)|activator protein 1|cellular oncogene c-fos

Pathway

- [B cell receptor signaling pathway](#)
- [Colorectal cancer](#)
- [GnRH signaling pathway](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Anorexia Nervosa](#)
- [Asthma](#)
- [Bipolar Disorder](#)
- [Bronchiolitis](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
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- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)