

Product datasheet for **UM800113CF**

c Fos (FOS) Mouse Monoclonal Antibody [Clone ID: UMAB221]

Product data:

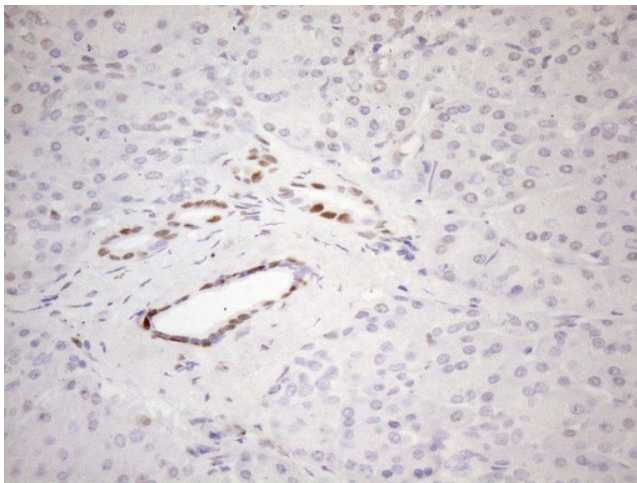
Product Type:	Primary Antibodies
Clone Name:	UMAB221
Applications:	10k-ChIP, IHC, WB
Recommended Dilution:	IHC 1:100~200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human FOS (NP_005243) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40.5 kDa
Gene Name:	Fos proto-oncogene, AP-1 transcription factor subunit
Database Link:	NP_005243 Entrez Gene 14281 MouseEntrez Gene 314322 RatEntrez Gene 2353 Human P01100



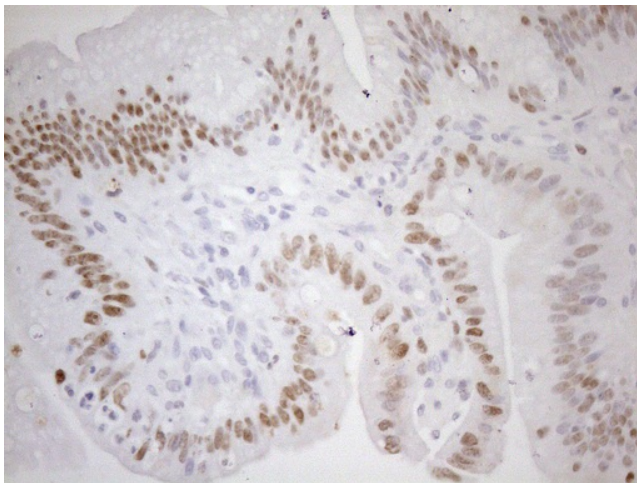
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- Background:** The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the 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]
- Synonyms:** AP-1; C-FOS; p55
- Protein Families:** Druggable Genome, Transcription Factors
- Protein Pathways:** B cell receptor signaling pathway, Colorectal cancer, MAPK signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

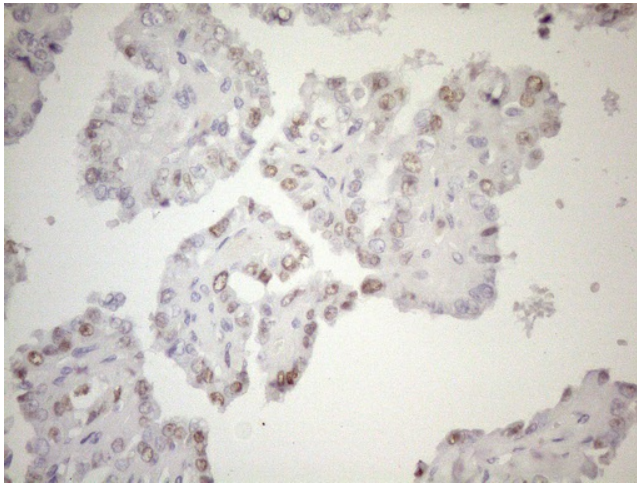
Product images:



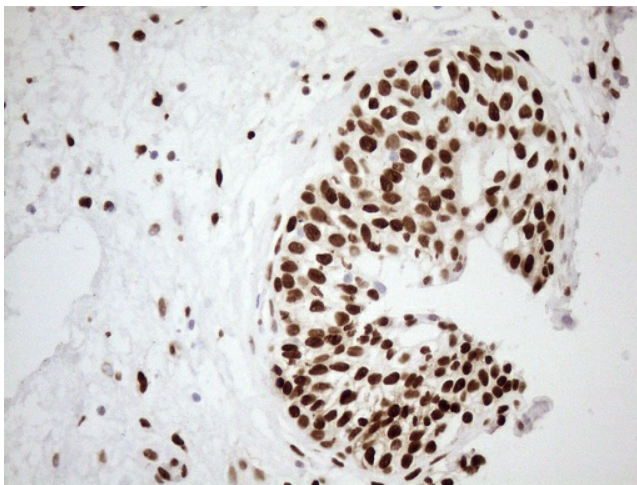
Immunohistochemical staining of paraffin-embedded human pancreas tissue within the normal limits using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800113] was diluted 1:200 and detection was done with HRP secondary and DAB chromogen. Here we see nuclear staining.



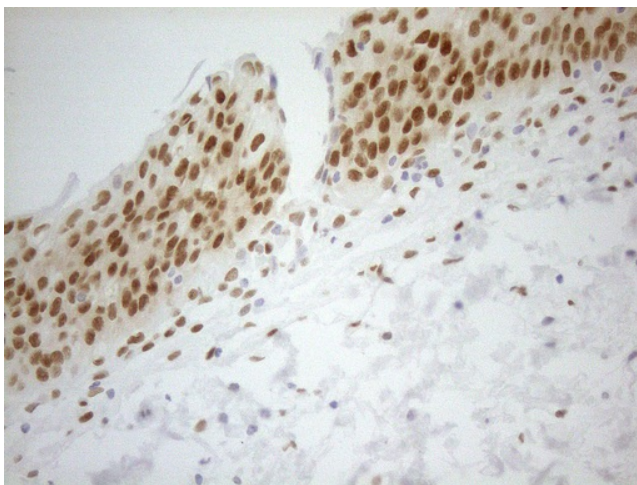
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800113] was diluted 1:200 and detection was done with HRP secondary and DAB chromogen. Nuclear staining seen in tumor cells.



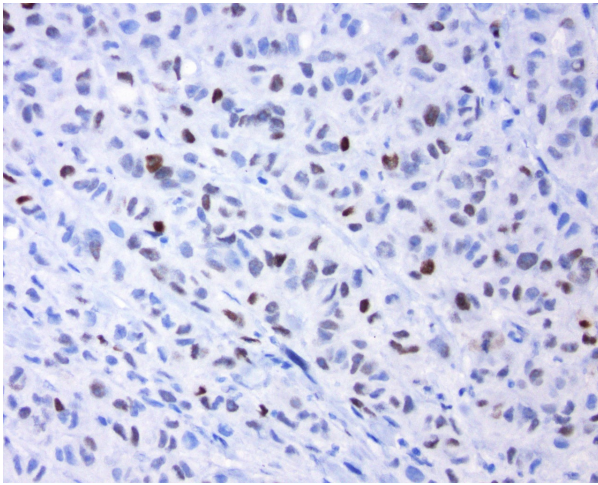
Immunohistochemical staining of paraffin-embedded carcinoma of human thyroid tissue using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800113] was diluted 1:200 and detection was done with HRP secondary and DAB chromogen. Nuclear staining seen in tumor cells.



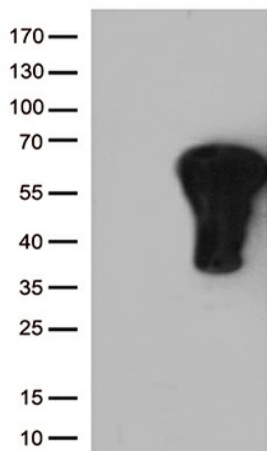
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800113] was diluted 1:200 and detection was done with HRP secondary and DAB chromogen. Nuclear staining seen in tumor cells.



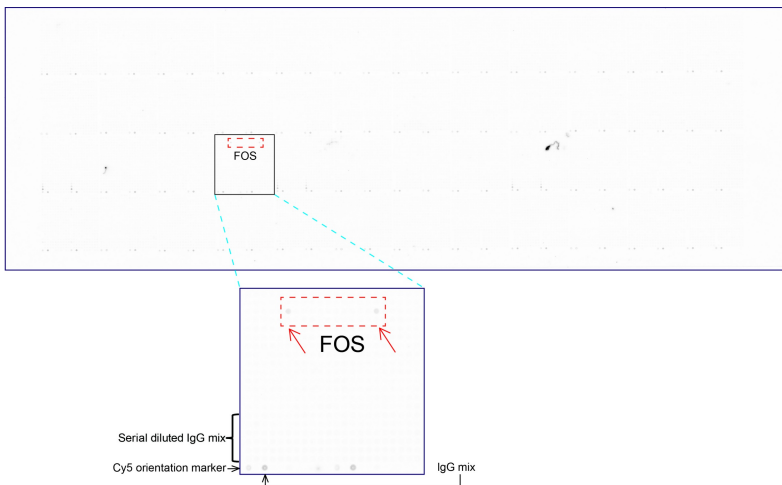
Immunohistochemical staining of paraffin-embedded human bladder tissue within the normal limits using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800113] was diluted 1:200 and detection was done with HRP secondary and DAB chromogen. Nuclear staining seen in epithelial cells.



Immunohistochemical staining of paraffin-embedded human melanoma using anti-FOS clone UMAB221 at 1:200 dilution of 0.5 mg/mL and detection with Polink2 Broad HRP DAB. [UM800113] requires heat-induced epitope retrieval with ACCEL (pH8.7) biocare pressure cooker. The image shows nuclear staining in tumor cells.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FOS ([RC202597], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FOS (1:4000).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-FOS mouse monoclonal antibody ([UM800113]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification (1:100).