

## Product datasheet for **UM800113**

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

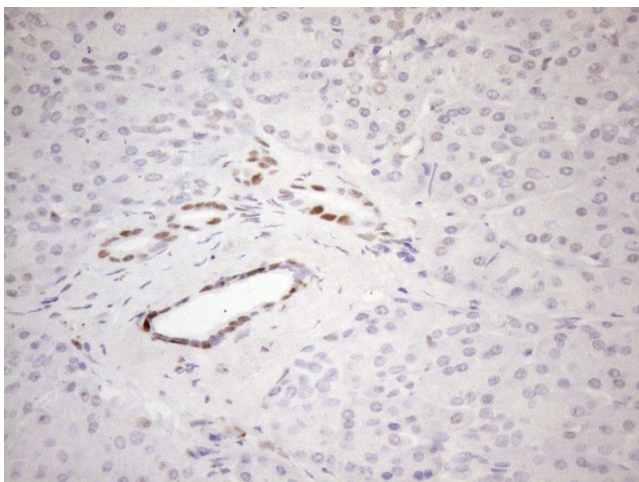
#### **Product data:**

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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
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:	<a href="#">NP_005243</a> <a href="#">Entrez Gene 14281 Mouse</a> <a href="#">Entrez Gene 314322 Rat</a> <a href="#">Entrez Gene 2353 Human</a> <a href="#">P01100</a>
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]

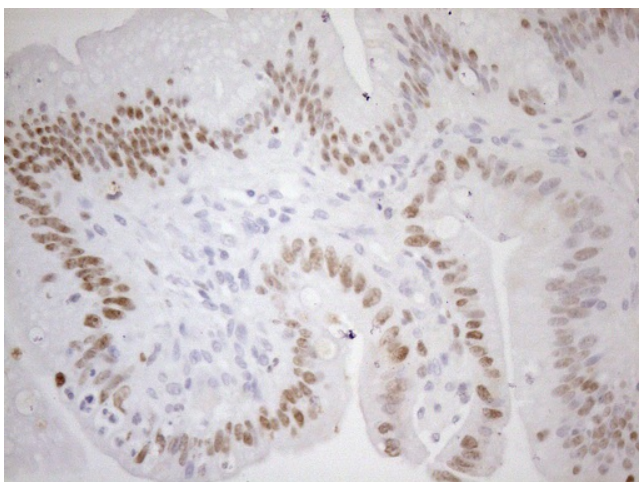

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<b>Synonyms:</b>	AP-1; C-FOS; p55
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	B cell receptor signaling pathway, Colorectal cancer, MAPK signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

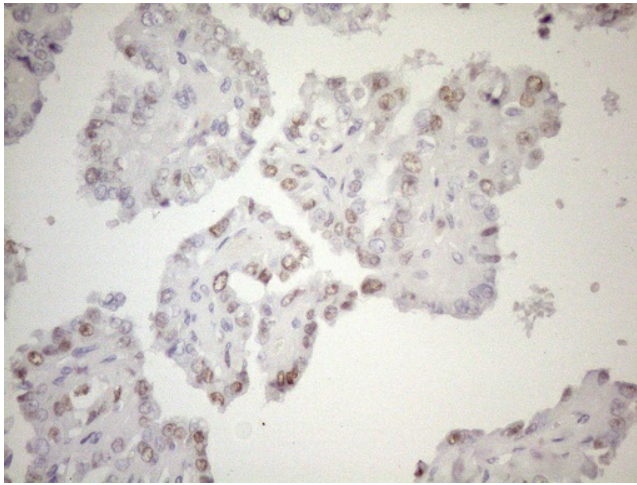
**Product images:**



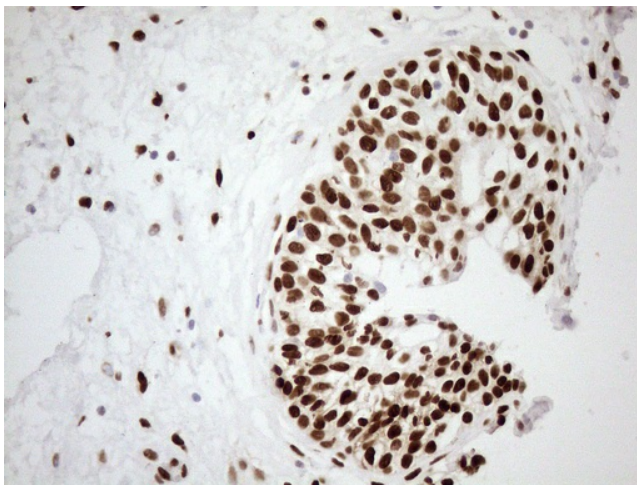
Immunohistochemical staining of paraffin-embedded human pancreas tissue within the normal limits using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. UM800113 was diluted 1:200 and detection was done with HRP secondary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



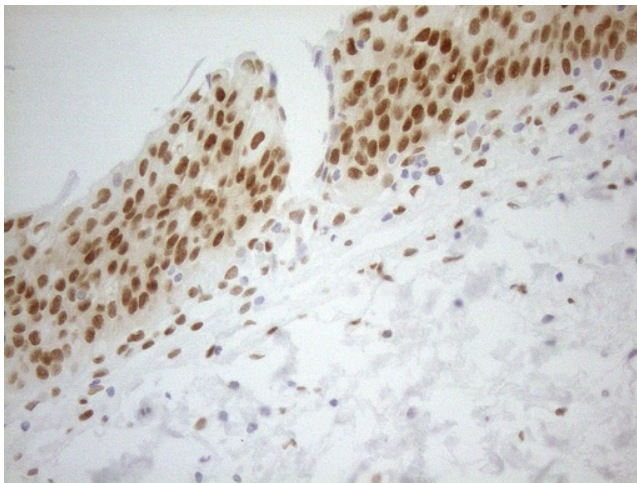
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. UM800113 was diluted 1:200 and detection was done with HRP secondary and DAB chromogen.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

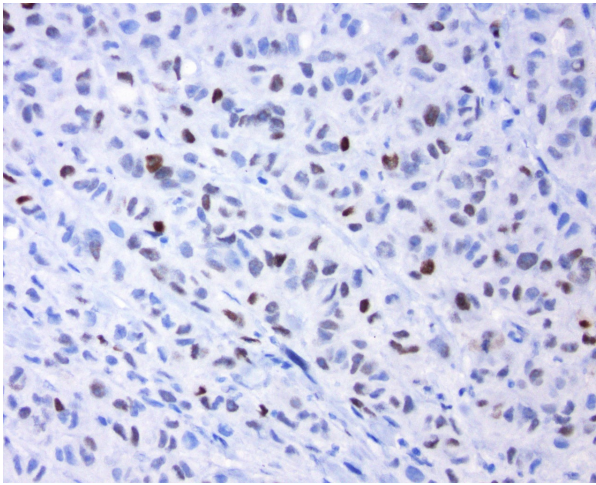


Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. UM800113 was diluted 1:200 and detection was done with HRP secondary and DAB chromogen.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

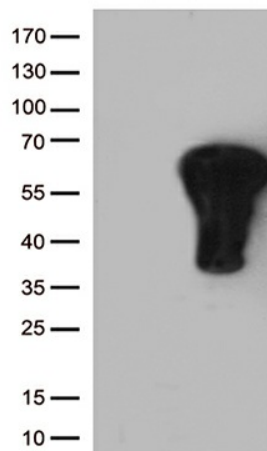


Immunohistochemical staining of paraffin-embedded human bladder tissue within the normal limits using anti-FOS mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. UM800113 was diluted 1:200 and detection was done with HRP secondary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

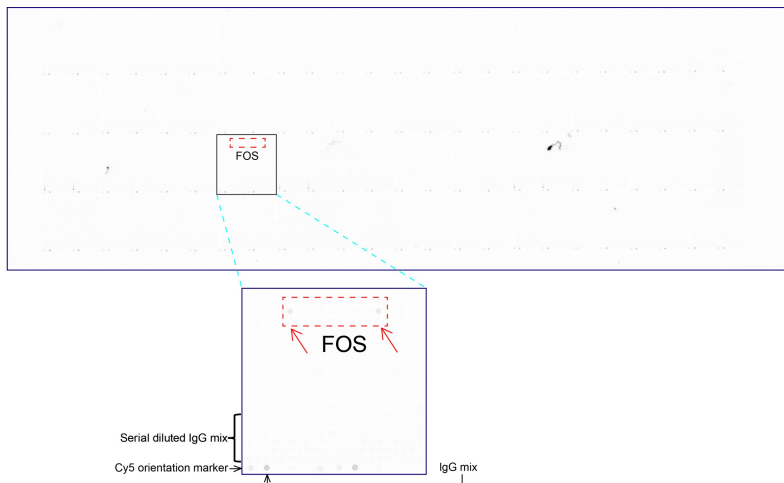




Immunohistochemical staining of paraffin-embedded human melanoma using anti-FOS clone UMAB221 at 1:200 dilution of 0.5 mg/mL and detection with Polink2 Broad HRP DAB. UM800113 requires heat-induced epitope retrieval with ACCEL (pH8.7) biocare pressure cooker. The image shows nuclear staining in tumor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