

## HA610220



<b>Product Type:</b>	Recombinant Chimeric Antibody, primary antibodies
<b>Species reactivity:</b>	Mouse, Rat, Human, Cynomolgus monkey, Pig
<b>Applications:</b>	IHC-Fr, WB
<b>Clone number:</b>	PSH05-77

<b>Description:</b>	Protein c-Fos is a proto-oncogene that is the human homolog of the retroviral oncogene v-fos. It is encoded in humans by the FOS gene. It was first discovered in rat fibroblasts as the transforming gene of the FBJ MSV (Finkel-Biskis-Jenkins murine osteogenic sarcoma virus). It is a part of a bigger Fos family of transcription factors which includes c-Fos, FosB, Fra-1 and Fra-2. It has been mapped to chromosome region 14q21→q31. c-Fos encodes a 62 kDa protein, which forms heterodimer with c-jun (part of Jun family of transcription factors), resulting in the formation of AP-1 (Activator Protein-1) complex which binds DNA at AP-1 specific sites at the promoter and enhancer regions of target genes and converts extracellular signals into changes of gene expression. It plays an important role in many cellular functions and has been found to be overexpressed in a variety of cancers.
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<b>Immunogen:</b>	Recombinant protein within human Protein c-Fos aa 1-380.
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<b>Positive control:</b>	Mouse brain tissue, rat brain tissue.
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<b>Subcellular location:</b>	Nucleus, Endoplasmic reticulum, Cytoplasm, cytosol.
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<b>Database links:</b>	SwissProt: P01100 Human   P01101 Mouse   P12841 Rat
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**Recommended Dilutions:**

<b>IHC-Fr</b>	1:2,000-1:5,000
<b>WB</b>	1:5,000-1:10,000

<b>Storage Buffer:</b>	PBS (pH7.4).
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<b>Storage Instruction:</b>	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
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<b>Purity:</b>	Protein A affinity purified.
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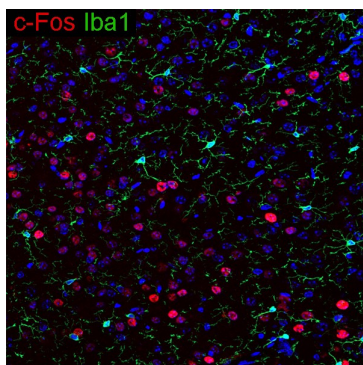
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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## Images

**Fig1:** Application: IHC-Fr

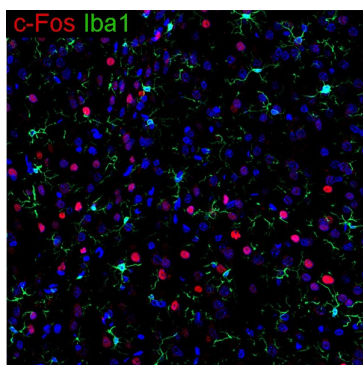
Species: Mouse

Site: Cerebral cortex (restraint stress induced)

Sample: Frozen section

Antibody concentration: 1/2,000 (c-Fos, HA610220, Guinea pig, Red); 1/1,000 (Iba1, ET1705-78, Rabbit, Green)

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

Species: Rat

Site: Cerebral cortex (restraint stress induced)

Sample: Frozen section

Antibody concentration: 1/2,000 (c-Fos, HA610220, Guinea pig, Red); 1/1,000 (Iba1, ET1705-78, Rabbit, Green)

Antigen retrieval: Not required

**Fig3:** Western blot analysis of c-Fos on different lysates with Guinea pig anti-c-Fos antibody (HA610220) at 1/5,000 dilution.

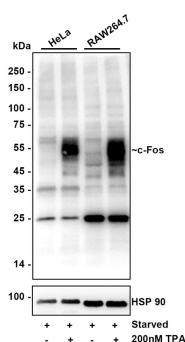
Lane 1: HeLa cell lysate

Lane 2: HeLa serum starved for 16 hours then add 200 nM TPA for 4 hours cell lysate

Lane 3: RAW264.7 cell lysate

Lane 4: RAW264.7 serum starved for 16 hours then add 200 nM TPA for 4 hours cell lysate

Lysates/proteins at 15 µg/Lane.



Predicted band size: 41 kDa

Observed band size: 41-55 kDa

Exposure time: 6 seconds; ECL: K1801;

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610220) at 1/5,000 dilution was used in K1803 at 4°C overnight. Goat Anti-Guinea pig IgG - HRP Secondary Antibody (HA1021) at 1/10,000 dilution was used for 1 hour at room temperature.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Matsuoka K et al. Metabolic rewiring controlled by c-Fos governs cartilage integrity in osteoarthritis. Ann Rheum Dis. 2023 Sep
2. Osada N et al. c-FOS is an integral component of the IKZF1 transactivator complex and mediates lenalidomide resistance in multiple myeloma. Clin Transl Med. 2023 Aug

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation