Product Datasheet

c-Fos Antibody (2H2)
NBP2-50037

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com  technical@novusbio.com

Reviews: 1  Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-50037

Updated 5/27/2021 v.20.1
### NBP2-50037

**c-Fos Antibody (2H2)**

#### Product Information

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>2H2</td>
</tr>
<tr>
<td>Preservative</td>
<td>5mM Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS, 50% glycerol (1:1)</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>50-65 kDa</td>
</tr>
</tbody>
</table>

#### Product Description

- **Host**: Mouse
- **Gene ID**: 2353
- **Gene Symbol**: FOS
- **Species**: Human, Mouse, Rat
- **Reactivity Notes**: Rat reactivity reported in scientific literature (PMID:33091429).
- **Immunogen**: This c-Fos Antibody (2H2) was developed against full length recombinant human c-Fos protein expressed in and purified from E. coli. [UniProt# P01100]

#### Product Application Details

- **Applications**: Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockout Validated
- **Recommended Dilutions**: Western Blot 1:1000 - 1:2000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:1000, Knockout Validated

#### Images

**Western Blot: c-Fos Antibody (2H2) [NBP2-50037]** - Top panel: Analysis of c-Fos expression in HeLa cells using NBP2-50037. Lane 1: HeLa cells were serum-starved for 36 hours. Lane 2: Serum-starved HeLa cells were stimulated with 20% FBS (fetal bovine serum) for 2 hours. NBP2-50037 recognizes bands in the range of 50-65 kDa, which represent multiple forms of c-Fos. Serum starvation attenuates c-Fos expression, while 20% FBS strongly stimulates c-Fos expression. Bottom panel: Blot was stripped and probed with monoclonal antibody against GAPDH (NB300-221) used as loading control.

---

www.novusbio.com  technical@novusbio.com
Immunocytochemistry/Immunofluorescence: c-Fos Antibody (2H2) [NBP2-50037] - Section of rat hippocampus stained with mouse monoclonal antibody to c-FOS NBP2-50037 in red and counterstained with rabbit polyclonal antibody to FOX3/NeuN. DAPI reveals nuclei of neurons and glia in blue. The hippocampal neurons stain green for FOX3/NeuN and a few also are expressing c-FOS, and so appear orange. These cells were spontaneously active at the time the animal was sacrificed.

Knockout Validated: c-Fos Antibody (2H2) [NBP2-50037] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and c-Fox knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Mouse Anti-Human c-Fox Monoclonal Antibody (Catalog # NBP2-50037) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for c-Fox at approximately 52 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.


Immunohistochemistry: c-Fos Antibody (2H2) [NBP2-50037] - pAb 1:1000 (green), DAPI counterstain (blue) on 30 micron cryosection of mouse spinal cord. This image was submitted via customer Review.
Immunocytochemistry/Immunofluorescence: c-Fos Antibody (2H2) [NBP2-50037] - Left: NBP2-50037 staining (green) in HeLa cells, which were treated with serum-starvation for 36 hrs, followed by 2 hrs 20% FBS stimulation (bottom), or PBS treatment (top). Green c-Fos staining only localizes in the nuclei of stimulated cells, but not in un-stimulated cells. Cells are counter-stained with chicken pAb against Vimentin (NB300-223, red). Blue shows DAPI staining of nucleus. Middle: Mouse brain section (45 uM; fixed by transcardial perfusion with 4% PFA) labeled with NBP2-50037 using a standard HRP-DAB staining technique. Cells expressing c-Fos show dark color in nucleus. Right: Mouse cortical section labeled with NBP2-50037 (red) and rabbit polyclonal anti-NeuN (NBP1-92716, green) using IF confocal. Neurons positive for c-Fos and RBFOX3/NeuN appear to be yellow. Inset shows an enlarged image of NBP2-50037 staining. Nuclei are labeled with Dapi (blue).

Publications


Niu Y, Zeng X, Zhao L et al. Metabotropic glutamate receptor 5 regulates synaptic plasticity in a chronic migraine rat model through the PKC/NR2B signal The journal of headache and pain Dec 4 2020 12:00AM [PMID: 33276724] (WB, Rat)


Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-50037

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications