

# Anti-NFIB / NF1B2 Antibody [1H5]

## EM1701-69



<b>Product Type:</b>	Mouse monoclonal IgG2b, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 47 kDa
<b>Clone number:</b>	1H5

**Description:** NF-1, also designated CTF, consists of a family of CCAAT box binding proteins that stimulate DNA replication and activate transcription. Analysis of human NF-1 messenger RNA has revealed two forms of the NF-1 protein arising from an alternate splicing of a single NF-1 gene. NF-1 binds its consensus DNA element as a homodimer via an amino-terminal DNA binding domain, and activates transcription through a putatively novel, proline-rich, carboxy terminal transactivation domain. The NF-1 protein has been shown to recognize and bind the adenovirus type 2 promoter and activate transcription of herpes simplex virus thymidine kinase genes. The NF-1 consensus element has been found in the upstream promoter region of myriad eukaryotic genes, including that of Ha-Ras,  $\alpha$ -globin, HSP 70, GRP 78, Histone H1, myelin basic protein and in the *Xenopus laevis* vitellogenin gene promoter.

**Immunogen:** Recombinant protein within Human NFIB / NF1B2 aa 1-420 / 420.

**Positive control:** SH-SY5Y, rat heart tissue, human pancreas tissue, mouse liver tissue.

**Subcellular location:** Nucleus.

**Database links:** SwissProt: O00712 Human | P97863 Mouse  
Entrez Gene: 29227 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500-1:1,000
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein G affinity purified.

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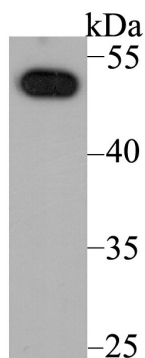
Orders:0086-571-88062880

Technical:0086-571-89986345

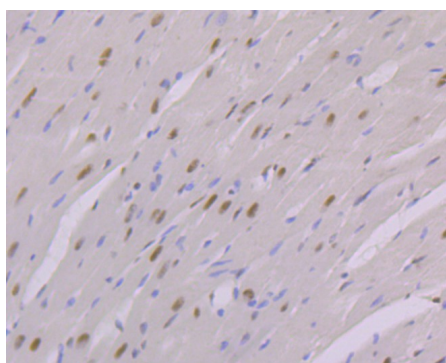
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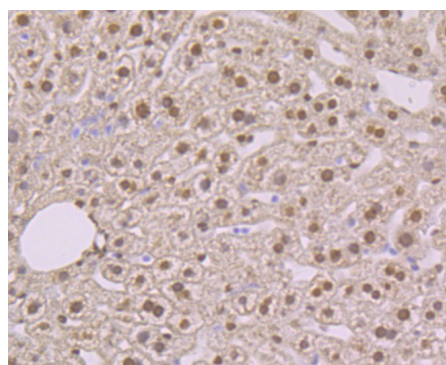
## Images



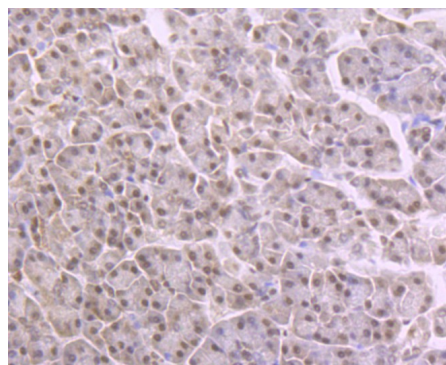
**Fig1:** Western blot analysis of NFIB/NF1B2 on SH-SY5Y using anti-NFIB/NF1B2 antibody at 1/500 dilution.



**Fig2:** Immunohistochemical analysis of paraffin-embedded rat heart tissue using anti-NFIB/NF1B2 antibody. Counter stained with hematoxylin.



**Fig3:** Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-NFIB/NF1B2 antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-NFIB/NF1B2 antibody. Counter stained with hematoxylin.

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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. Liu Y et al. NFI-B3, a novel transcriptional repressor of the nuclear factor I family, is generated by alternative RNA processing. *J Biol Chem* 272:10739-10745 (1997).
2. Bechtel S et al. The full-ORF clone resource of the German cDNA consortium. *BMC Genomics* 8:399-399 (2007).

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