

# Anti-IREB2 Antibody [1G3]

## RT1335



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IP, IF, IHC-P
<b>Molecular Wt:</b>	105kDa
<b>Clone number:</b>	1G3

**Description:** Iron metabolism is essential for sustaining mammalian homeostasis. Iron uptake and distribution is a highly regulated process in mammalian cells that is monitored by two iron sensing proteins: IRP-1 and -2 (iron regulatory protein-1 and -2), also known as iron responsive element-binding protein-1 and -2 (IRE-BP-1 and -2) or aconitase 1 and 2. IRP-1 and IRP-2 are important soluble regulatory factors that mediate iron uptake and storage in mammalian cells. They are capable of either repressing translation or enhancing mRNA stability by associating with stem-loop motifs known as iron-responsive elements (IREs). IRPs respond to stress mediators, iron concentration and signaling factors, including nitrogen monoxide, cytokines and hydrogen peroxide.

**Immunogen:** Full-length recombinant IRP-2 of human origin.

**Positive control:** Jurkat, human adrenal gland tissue.

**Subcellular location:** Cytoplasm

**Database links:** SwissProt: P48200 Human

### Recommended Dilutions:

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)
<b>IF</b>	1:50-1:500
<b>IHC-P</b>	1:50-1:500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C

**Purity:** Protein A affinity purified.

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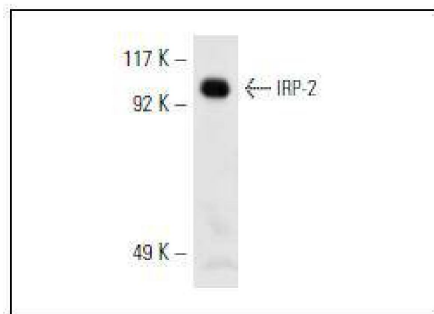
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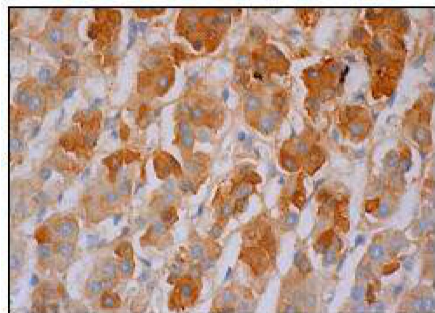
Service mail:support@huabio.cn

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## Images



**Fig1:** Western blot analysis of IRP-2 expression in Jurkat whole cell lysate.



**Fig2:** Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

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

## Background References

1. Chollangi, S., et al. 2012. Hemerythrin-like domain within F-box and leucine-rich repeat protein 5 (FBXL5) communicates cellular iron and oxygen availability by distinct mechanisms. *J. Biol. Chem.* 287: 23710-23717.
2. Hirling, H., et al. 1992. Expression of active iron regulatory factor from a full-length human cDNA by in vitro transcription/translation. *Nucleic Acids Res.* 20: 33-39.

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