



# Iron Responsive Element Binding Protein 2 (IREB2, IREBP2, ACO3, FLJ23381, Iron Regulatory Protein 2, IRP2, IRP2AD)

## Catalog number

I8615-75B

## Supplier

United States Biological

Iron regulatory protein 2 (IRP2) is a central post-transcriptional regulator of cellular and systemic iron metabolism. It is a cytosolic RNA-binding protein that binds to stem-loop structures. IRP2 is regulated by iron-mediated proteolysis.

Hypoxia is important for normal tissue physiology as well as being a component of several pathophysiological conditions, including heart and cerebrovascular diseases and tumor growth. Because iron and oxygen are closely related, IRP2 also plays a role during hypoxia (low oxygen).

## Cellular Localization

Cytoplasmic

## Applications

Suitable for use in Western Blot. Other applications not tested.

## Recommended Dilution

Optimal dilutions to be determined by the researcher.

## Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot Store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## Immunogen

A synthetic peptide made to an internal portion of the murine IRP2 protein sequence (between residues 100-200). UniProt Q811J3.

## Formulation

Tris-glycine and 150mM NaCl containing 0.05% sodium azide.

## Purity

Purified by immunoaffinity chromatography.

## Specificity

Species Crossreactivity: This antibody reacts with mouse IRP2 protein. Initial results have shown poor reactivity against human protein. The immunogen used for this antibody production has 94% homology with human and rat proteins.

## Product Type



Pab

**Source**

mouse

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

WB

**Crossreactivity**

Hu Mo Rt

**Storage**

-20°C