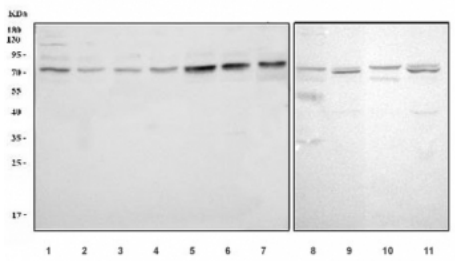
# GRB10 Antibody (RQ5730)

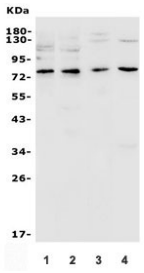
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5730 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

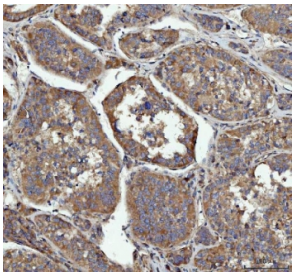
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q13322 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry: 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This GRB10 antibody is available for research use only. |



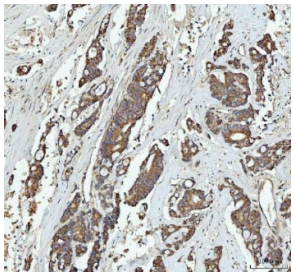

Western blot testing of 1) human HEK293, 2) HeLa, 3) rat kidney and 4) mouse kidney lysate with GRB10 antibody. Expected molecular weight: 58-70 kDa.



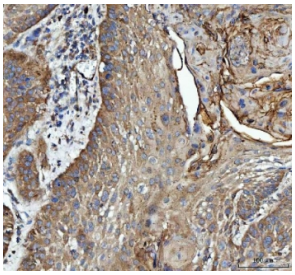

Western blot testing of human 1) human HeLa, 2) human HepG2, 3) human 293T, 4) monkey COS-7, 5) human K562, 6) human U-87 MG, 7) human HEL, 8) rat liver, 9) rat brain, 10) mouse liver and 11) mouse brain tissue lysate with GRB10 antibody. Expected molecular weight: 58-70 kDa.



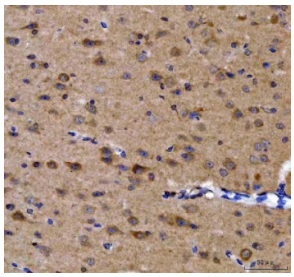
IHC staining of FFPE human liver cancer tissue with GRB10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



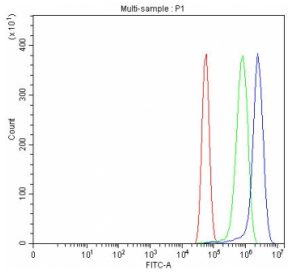
IHC staining of FFPE human colorectal adenocarcinoma tissue with GRB10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with GRB10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse brain tissue with GRB10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Flow cytometry testing of fixed and permeabilized human U-87 MG cells with GRB10 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GRB10 antibody.

## Description

GRB10, Growth factor receptor-bound protein 10, also known as insulin receptor-binding protein Grb-IR is a protein that in humans is encoded by the GRB10 gene. The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors(e.g., IGF1R and IGF2R). Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner. Alternatively spliced transcript variants encoding different isoforms have been identified.

## Application Notes

Optimal dilution of the GRB10 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids M1-K251) was used as the immunogen for the GRB10 antibody.

## Storage

After reconstitution, the GRB10 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


Copyright © NSJ Bioreagents. All rights reserved.