

## ARG42841 anti-GRB14 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes GRB14
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GRB14
Species	Human
Immunogen	Recombinant protein corresponding to M1-Q246 of Human GRB14.
Conjugation	Un-conjugated
Alternate Names	Growth factor receptor-bound protein 14; GRB14 adapter protein

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 61 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

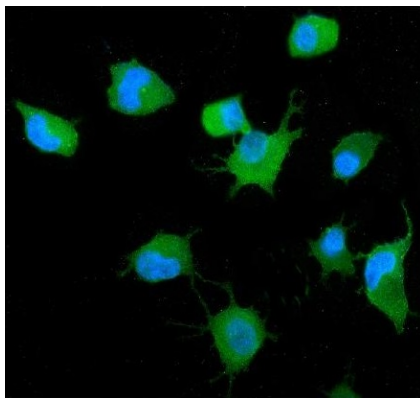
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

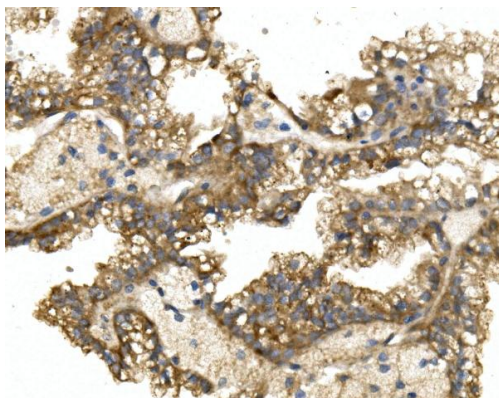
Gene Symbol	GRB14
Gene Full Name	growth factor receptor-bound protein 14
Background	The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors. This protein likely has an inhibitory effect on receptor tyrosine kinase signaling and, in particular, on insulin receptor signaling. This gene may play a role in signaling pathways that regulate growth and metabolism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Function	Adapter protein which modulates coupling of cell surface receptor kinases with specific signaling pathways. Binds to, and suppresses signals from, the activated insulin receptor (INSR). Potent inhibitor of insulin-stimulated MAPK3 phosphorylation. Plays a critical role regulating PDK1 membrane translocation in response to insulin stimulation and serves as an adapter protein to recruit PDK1 to activated insulin receptor, thus promoting PKB/AKT1 phosphorylation and transduction of the insulin signal. [UniProt]
Calculated Mw	61 kDa
PTM	Phosphorylated on serine residues. Phosphorylated on tyrosine residues by TEK/TIE2. [UniProt]
Cellular Localization	Cytoplasm. Endosome membrane; Peripheral membrane protein. Note=Upon insulin stimulation, translocates to the plasma membrane. [UniProt]

## Images



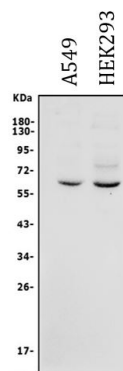
ARG42841 anti-GRB14 antibody ICC/IF image

Immunofluorescence: A549 cells were blocked with 10% goat serum and then stained with ARG42841 anti-GRB14 antibody (green) at 5 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



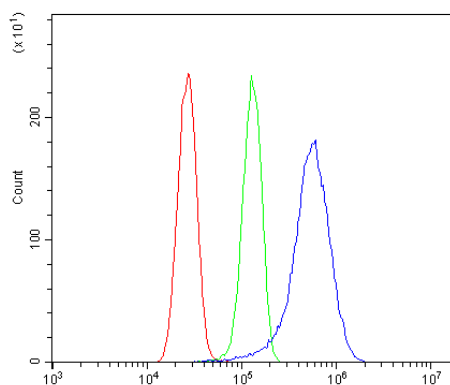
ARG42841 anti-GRB14 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human renal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42841 anti-GRB14 antibody at 2 µg/ml dilution, overnight at 4°C.



#### ARG42841 anti-GRB14 antibody WB image

Western blot: 50  $\mu$ g of sample under reducing conditions. A549 and HEK293 whole cell lysates stained with ARG42841 anti-GRB14 antibody at 0.5  $\mu$ g/ml dilution, overnight at 4°C.



#### ARG42841 anti-GRB14 antibody FACS image

Flow Cytometry: U-87 MG cells were blocked with 10% normal goat serum and then stained with ARG42841 anti-GRB14 antibody (blue) at 1  $\mu$ g/ $10^6$  cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1  $\mu$ g/ $10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.