CPTC-GRB2-1 (CAB080211)

Uniprot ID: P62993

Protein name: GRB2_HUMAN

Full name: Growth factor receptor-bound protein 2

Function: Adapter protein that provides a critical link between cell surface growth factor receptors and the Ras signaling pathway. [Isoform 2]: Does not bind to phosphorylated epidermal growth factor receptor (EGFR) but inhibits EGF-induced transactivation of a RAS-responsive element. Acts as a dominant negative protein over GRB2 and by suppressing proliferative signals, may trigger active programmed cell death.

Subcellular location:

Nucleus (experimental evidence) Cytoplasm (experimental evidence) Endosome (experimental evidence) Golgi apparatus (by similarity)

Protein existence: Experimental evidence at protein level

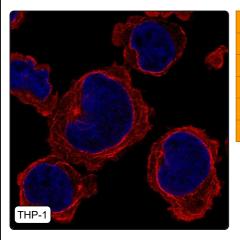
Comment:

Immunohistochemistry



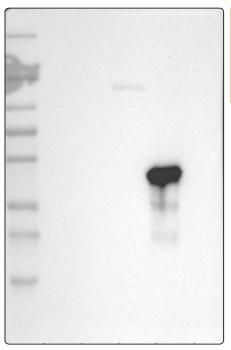
IHC protocol:	HIER pH6, Dilution 1:700	
IHC test staining:	Cytoplasmic positive in liver, kidney, skeletal muscle, immune cells and cilia.	
Literature conformance:	Not consistent with gene/protein characterization data	
Literature significance:		
RNA similarity:	Very low consistency between antibody staining and RNA expression data	
RNA tissue specificity:	Low tissue specificity	
RNA tissue distribution:	Detected in all	
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern	
IHC fail comment:	ANTIBODY FAILED: Not consistent with RNA	

Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U-2 OS:	Negative
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Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	5, 13, 18, 21, 21, 25, 25, 25
WB Validation:	Uncertain (Weak band of predicted size but with additional bands of higher intensity also present.)