CPTC-HRAS-2 (CAB080331)

Uniprot ID: P01112

Protein name: RASH_HUMAN Full name: GTPase HRas Tissue specificity: Widely expressed. Function: Involved in the activation of Ras protein signal transduction (PubMed:22821884). Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (PubMed:12740440, PubMed:14500341, PubMed:9020151). Subcellular location: Unnamed: Cell membrane (Topo: Lipid-anchor ; Orientation: Cytoplasmic side) Golgi apparatus Golgi apparatus membrane (Topo: Lipid-anchor) NOTE: The active GTP-bound form is localized most strongly to membranes than the inactive GDP-bound form (By similarity). Shuttles between the plasma membrane and the Golgi apparatus. Isoform 2: Nucleus Cytoplasm Cytoplasm > Perinuclear region NOTE: Colocalizes with RACK1 to the perinuclear region. Protein existence: Experimental evidence at protein level

Comment:

Immunohistochemistry



IHC protocol:	HIER pH6, Dilution 1:260	
IHC test staining:	Cytoplasmic positivity in most tissues.	
Literature conformance:	Consistent with extensive gene/protein characterization data	
Literature significance:		
RNA similarity:	Medium 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 similar IHC staining pattern	

Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Plasma membrane - 3: Supportive (auto)
IF additional location:	Vesicles - 5: Approved (auto) Nucleoplasm - 3: Supportive (auto)
IF approved for publication on HPA:	No
IF in THP-1:	Nucleoplasm Plasma membrane
IF in U2OS:	Vesicles Plasma membrane

Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10	
WB Lanes:	Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)	
WB Target weight (kDa):	19, 19, 21, 21, 21	
WB Validation:	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)	