

CPTC-HRAS-4 (CAB080333)

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

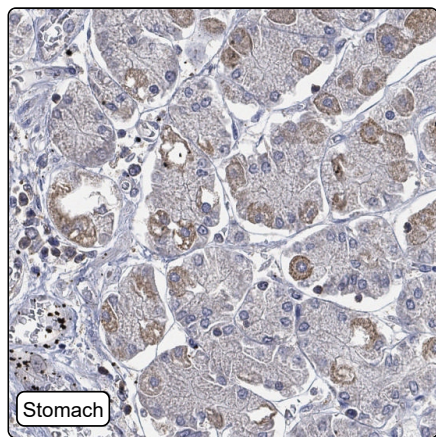
Cytoplasm > Perinuclear region

NOTE: Colocalizes with RACK1 to the perinuclear region.

Protein existence: Experimental evidence at protein level

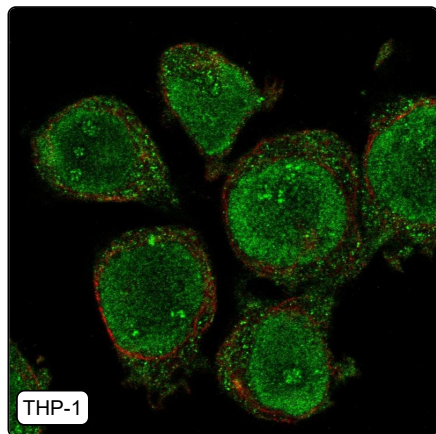
Comment:

Immunohistochemistry



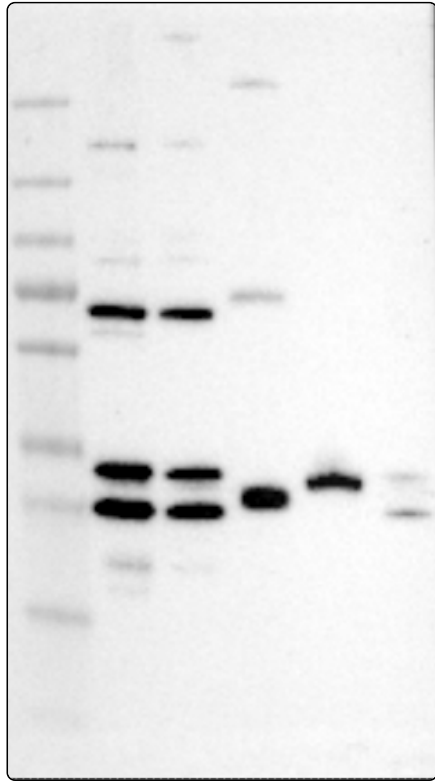
IHC protocol:	HIER pH6, Dilution 1:1750
IHC test staining:	Cytoplasmic positivity in stomach and nuclear in testis.
Literature conformance:	Not consistent with gene/protein characterization data
Literature significance:	
RNA similarity:	Very low consistency between antibody staining and RNA expression data
RNA tissue specificity:	Low tissue specificity
RNA tissue distribution:	Detected in all
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern

Immunofluorescence



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