## 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) <br> Nucleoplasm - 3: Supportive (auto) |
| IF approved for publication on HPA: | No |
| IF in THP-1: | Nucleoplasm <br> Plasma membrane |
| IF in U2OS: | Vesicles <br> Plasma membrane |



| 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 $\mathrm{kDa}(+/-20 \%)$ with additional bands present.) |

