CPTC-KRAS4B-2 (CAB080343)

Uniprot ID: P01116

Protein name: RASK_HUMAN Full name: GTPase KRas

Function: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (PubMed:20949621). Plays an important role in the regulation of cell proliferation (PubMed:23698361, PubMed:22711838). Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner (PubMed:24623306).

Subcellular location:

Unnamed:

Cell membrane (*experimental evidence*) (Topo: Lipid-anchor (*experimental evidence, curator inference*); Orientation: Cytoplasmic side (*curator inference*)) Endomembrane system (*experimental evidence*)

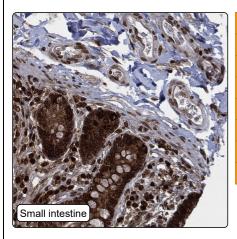
Cytoplasm > Cytosol (*experimental evidence*)

Isoform 2B:

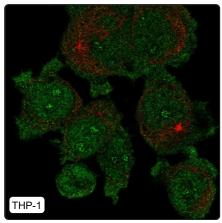
Cell membrane (*experimental evidence*) (Topo: Lipid-anchor (*curator inference*)) **Protein existence**: Experimental evidence at protein level

Comment:

Immunohistochemistry



Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Nucleoli fibrillar center - 12: Uncertain (auto) Nucleoplasm - 12: Uncertain (auto)
IF additional location:	Plasma membrane - 3: Supportive (auto) Cytosol - 3: Supportive (auto)
IF approved for publication on HPA:	No
IF in THP-1:	Nucleoplasm Nucleoli Fibrillar center Plasma membrane
IF in U2OS:	Nucleoplasm Nucleoli Fibrillar center Cytosol

HIER pH6, Dilution 1:1000	
Nuclear and cytoplasmic positivity in most tissues.	
Not consistent with gene/protein characterization data	
Very low consistency between antibody staining and RNA expression data	
Low tissue specificity	
Detected in all	
Other antibody shows dissimilar IHC staining pattern	

Western blot

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-		4	-	
-	-	-	-	

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):	5, 9, 21, 22
WB Validation:	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)