## CPTC-RYK-2 (CAB080390)

#### Uniprot ID: P34925

Protein name: RYK\_HUMAN

**Full name**: Tyrosine-protein kinase RYK **Tissue specificity**: Observed in all the tissues examined.

Function: May be a coreceptor along with FZD8 of Wnt proteins, such as WNT1, WNT3, WNT3A and WNT5A. Involved in neuron differentiation, axon guidance, corpus callosum establishment and neurite outgrowth. In response to WNT3 stimulation, receptor C-terminal cleavage occurs in its transmembrane region and allows the C-terminal intracellular product to translocate from the cytoplasm to the nucleus where it plays a crucial role in neuronal development.

Subcellular location:

Membrane (by similarity) (Topo: Single-pass type I membrane protein (by similarity))

Nucleus (by similarity)

Cytoplasm (by similarity)

NOTE: In cells that have undergone neuronal differentiation, the C-terminal cleaved part is translocated from the cytoplasm to the nucleus.

Protein existence: Experimental evidence at protein level

Comment:

#### Immunohistochemistry



IHC protocol:	HIER pH6, Dilution 1:150	
IHC test staining:	No positivity was observed.	
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:	
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U2OS:	Negative

# 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):	62, 68, 68
	WB Validation:	Uncertain (Single band larger than predicted size in kDa (+20%) but partly supported by experimental and/or bioinformatic data.)
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