CPTC-ERBB3-2 (CAB080194)

Uniprot ID: P21860

Protein name: ERBB3 HUMAN Full name: Receptor tyrosine-protein kinase erbB-3

Tissue specificity: Epithelial tissues and brain.

Function: Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:20682778). May also be activated by CSPG5 (PubMed:15358134). Involved in the regulation of myeloid cell differentiation (PubMed:27416908). Subcellular location:

Isoform 1:

Cell membrane (experimental evidence) (Topo: Single-pass type I membrane protein)

Isoform 2: Secreted

Protein existence: Experimental evidence at protein level

Comment:

Immunohistochemistry

	IHC protocol:	HIER pH6, Dilution 1:250
Constant of the	IHC test staining:	Cytoplasmic positivity in pancreas. Lipofuscin positivity in central nervous system and liver. Additional positivity in plasma.
	Literature conformance:	Not consistent with gene/protein characterization data
A REAL PROVIDENCE OF THE	Literature significance:	
	RNA similarity:	Very low consistency between antibody staining and RNA expression data
	RNA tissue specificity:	Low tissue specificity
- Karlow - Constant	RNA tissue distribution:	Detected in many
	IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern
	IHC fail comment:	ANTIBODY FAILED: Not consistent with RNA
Pancreas		

Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Vesicles - 12: Uncertain (auto)
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U-2 OS:	Vesicles

Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10	
WB Lanes:	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)	
WB Target weight (kDa):	2, 9, 13, 13, 14, 20, 51, 64, 72, 142, 148	
WB Validation:	Uncertain (No bands detected.)	