## 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 |
| :--- | :--- |
| IHC test staining: | Cytoplasmic positivity in pancreas. Lipofuscin positivity in central nervous system <br> and liver. Additional positivity in plasma. |
| 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 many |
| IHC sibling similarity: | Other antibody shows dissimilar IHC staining pattern |
| IHC fail comment: | ANTIBODY FAILED: Not consistent with RNA |

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

