## CPTC-BCL2L1-2 (CAB080083)

Uniprot ID: P10415

Protein name: BCL2\_HUMAN
Full name: Apoptosis regulator Bcl-2

Tissue specificity: Expressed in a variety of tissues.

Function: Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed:1508712, PubMed:8183370). Regulates cell death by controlling the mitochondrial membrane permeability (PubMed:11368354). Appears to function in a feedback loop system with caspases (PubMed:11368354). Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) (PubMed:11368354). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed:18570871, PubMed:21358617, PubMed:20889974). May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed:17418785).

Subcellular location:

Mitochondrion outer membrane (experimental evidence) (Topo: Single-pass membrane protein (match to sequence model))

Nucleus membrane (experimental evidence) (Topo: Single-pass membrane protein (match to sequence model))

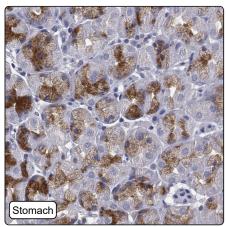
Endoplasmic reticulum membrane (experimental evidence) (Topo: Single-pass membrane protein (match to sequence model))

Cytoplasm (by similarity)

Protein existence: Experimental evidence at protein level

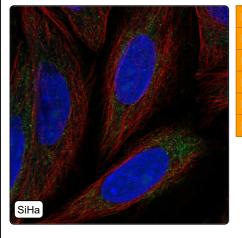
Comment:

## Immunohistochemistry



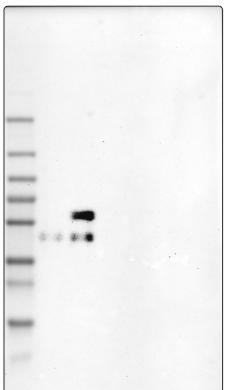
IHC protocol:	HIER pH6, Dilution 1:400	
IHC test staining:	Cytoplasmic positivity in stomach and additional lipofuscin positivity in brain and liver.	
Literature conformance:	Not consistent with gene/protein characterization data	
Literature significance:		
RNA similarity:	Very low consistency between 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	

## Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Mitochondria - 1 [3]: <b>Supportive</b> (auto)
IF additional location:	
IF approved for publication on HPA:	Yes
IF in SiHa:	Mitochondria
IF in U-2 OS:	Negative
	-

## 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):	5, 6, 22, 26, 26	
WB Validation:	Uncertain (Only bands not corresponding to the predicted size.)	