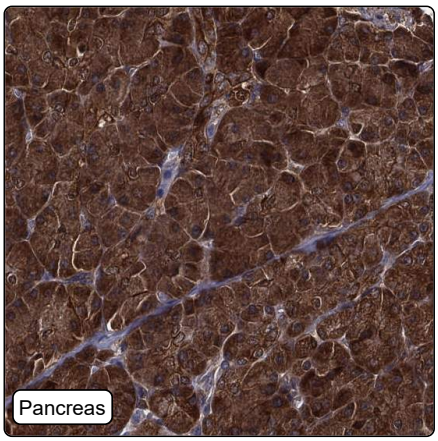
CPTC-PRDX2-1 (CAB080246)

Uniprot ID: P32119
Protein name: PRDX2_HUMAN
Full name: Peroxiredoxin-2
Function: Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2).
Subcellular location:
Cytoplasm (*experimental evidence*)
Protein existence: Experimental evidence at protein level

Comment:

Immunohistochemistry



IHC protocol:	HIER pH6, Dilution 1:7000
IHC test staining:	Cytoplasmic positivity in most tissues.
Literature conformance:	Consistent with extensive gene/protein characterization data
Literature significance:	
RNA similarity:	Medium 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 partly similar IHC staining pattern
Reliability score:	Supported
APE summary:	General cytoplasmic expression.
APE explanatory sentences:	Medium consistency between antibody staining and RNA expression data.
Orthogonal validation:	No
Independent validation:	No
IHC Annotation summary:	Moderate to strong cytoplasmic staining was observed in most tissues. Most cancers showed moderate to strong cytoplasmic staining.