BCL2-like 2

UniProt

Function: Promotes cell survival. Blocks dexamethasone-induced apoptosis. Mediates survival of postmitotic Sertoli cells by suppressing death-promoting activity of BAX.
Subcellular location: Mitochondrion membrane; Peripheral membrane protein. NOTE: Loosely associated with the mitochondrial membrane in healthy cells. During apoptosis, tightly bound to the membrane.
Tissue specificity: Expressed (at protein level) in a wide range of tissues with highest levels in brain, spinal cord, testis, pancreas, heart, spleen and mammary glands. Moderate levels found in thymus, ovary and small intestine. Not detected in salivary gland, muscle or liver. Also expressed in cell lines of myeloid, fibroblast and epithelial origin. Not detected in most lymphoid cell lines.

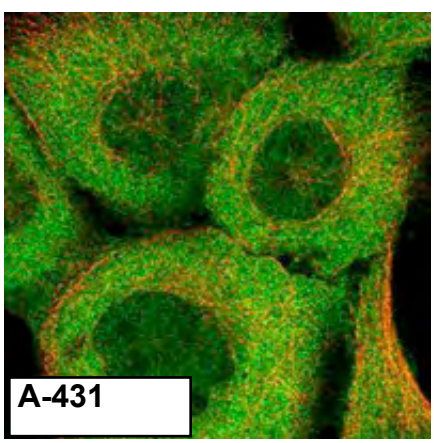
Three antibodies: BCL2L2-1, BCL2L2-2 and BCL2L2-3 were tested. BCL2L2-1 and BCL2L2-2 were approved for IHC. BCL2L2-2 was selected for full protein profiling.

BCL2L2-2 (CAB040539)

Immunohistochemistry

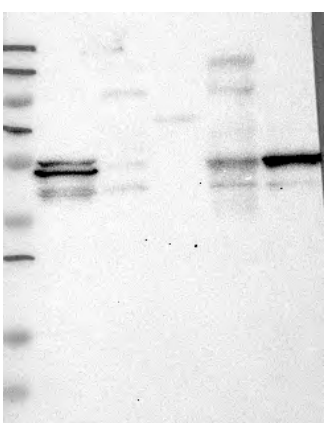
IHC protocol: HIER pH 6, Dilution 1:200
IHC test staining: Ubiquitous cytoplasmic staining with high expression in, eg pancreas, testes and skeletal muscle.

IHC Annotators comments
Most of the normal tissues displayed moderate cytoplasmic positivity. Additional nuclear staining was observed in squamous epithelia. Thyroid, urothelium, breast, neuronal cells and cells in red pulp of spleen were strongly stained.
Malignant cells displayed moderate cytoplasmic positivity. Thyroid cancers along with a few cases of malignant melanomas, ovarian, lung and pancreatic cancers exhibited strong staining.



Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)
IF Localisation: Staining of nucleus, plasma membrane and cytoplasm in A-431.
IF Validation: Subcellular localization not consistent with literature.



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11
WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)
WB Target weight (kDa): 21
WB Validation: Non-Supportive (Only bands not corresponding to the predicted size)