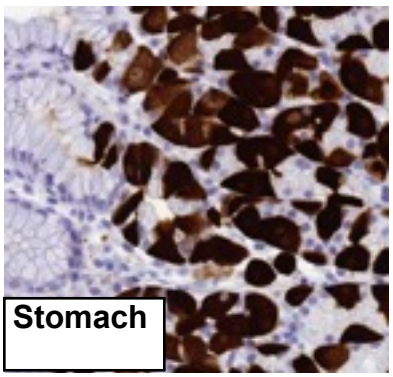
CKB-2

Uniprot ID: P12277
Protein name: KCRB_HUMAN
Full name: Creatine kinase B-type
Protein existence: evidence at protein level
Function: Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.
Subcellular location: Cytoplasm.

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

CKB-2 (CAB047313) OK

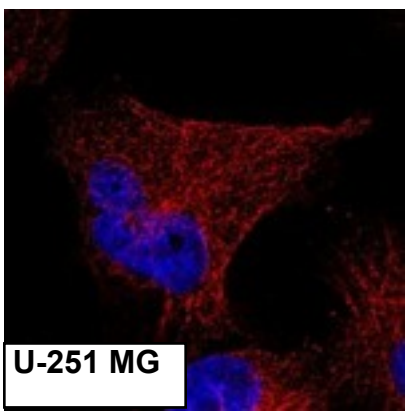


Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:6000
IHC test staining: Cytoplasmic staining with strong intensity in e g neuropil and intestine.

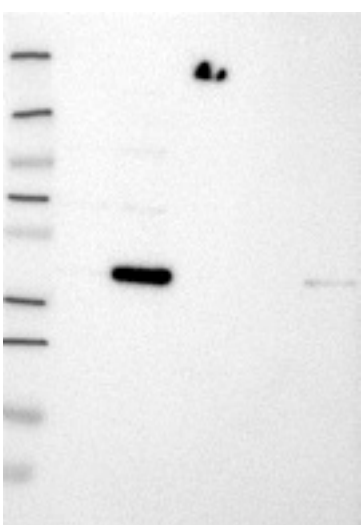
IHC Annotators comments

Parietal cells in stomach, glandular cells of large intestine, prostate, Purkinje cells and astrocytes showed strong cytoplasmic immunoreactivity. Remaining normal tissues were negative.



Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)
IF Localization: No staining was observed in any of the three cell lines.



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): 43, 7, 24, 39, 20, 14, 2, 10
WB Validation: Supportive - Band of predicted size in kDa (+/-20%) with additional bands present.