Data Sheet (Cat.No.TMAC-00961)

Anti-Creatine kinase B/CKB Antibody (1R5)

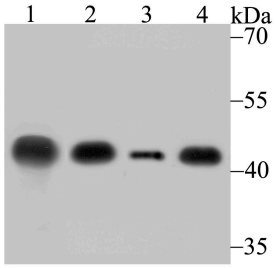
Product Details

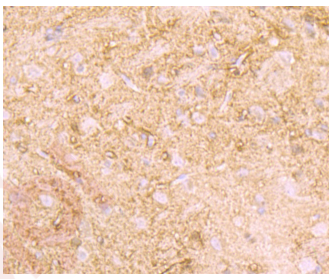
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 43 kDa.
Clone:	1R5
Purification:	ProA affinity purified

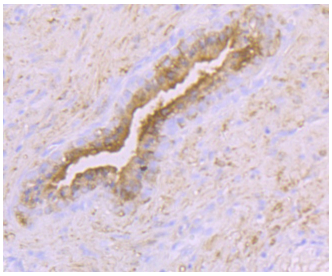
Applications

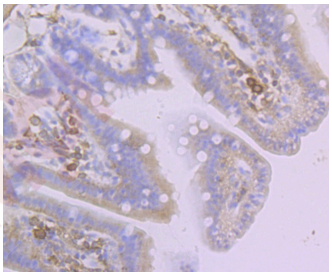
Verified Activity:

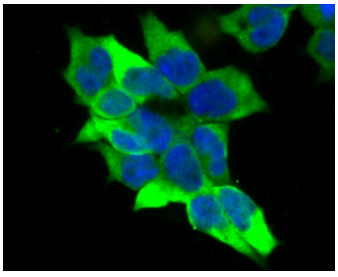
1. Western blot analysis of Creatine kinase B type on different lysates using anti-Creatine kinase B type antibody at 1/500 dilution. Positive control: Lane 1: Mouse brain, Lane 2: Mouse brain, Lane 3: Rat brain, Lane 4: 293.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Creatine kinase B type antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-Creatine kinase B type antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Creatine kinase B type antibody. Counter stained with hematoxylin.
5. ICC staining Creatine kinase B type in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Creatine kinase B type in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of 293T cells with Creatine kinase B type antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

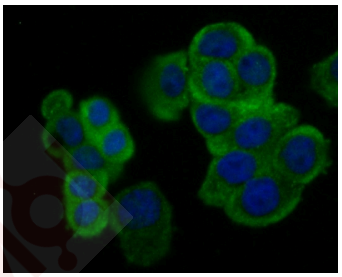


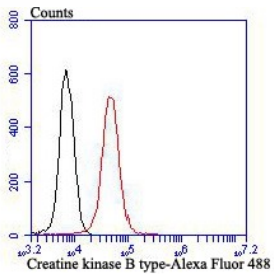












Application: FCM,ICC,IF,IHC,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P12277

Synonyms: HEL-211;BCK;creatine kinase, brain;B-CK;CKBB;HEL-S-29

Research Background

Creatine kinases (CKs) are a large family of isoenzymes that regulate levels of ATP in subcellular compartments, where they provide ATP at sites of fluctuating energy demand by the transfer of phosphates between creatine and adenine nucleotides. Creatine kinases provide the energy of phosphate hydrolysis necessary to drive the normal function of many cellular systems including muscle, electrocytes, retina photoreceptor cells, brain cells, kidney, salt glands, myometrium, placenta, pancreas, thymus, thyroid, intestinal epithelial cells, endothelial cells, cartilage and bone cells, macrophages, blood platelets, and tumor and cancer cells. Human cytoplasmic creatine kinase-B, also designated CK-B and BCK, is a 381 amino acid, brain tissue specific isoform of creatine kinase. Human cytoplasmic creatine kinase-muscle (CK-M, MCK) is a muscle tissue-specific isoform of creatine kinase. Human cytoplasmic creatine kinase-Mi (Mi-CK, MtCK) is a 416 amino acid mitochondrial-specific isoform of creatine kinase. Cytosolic creatine kinases are important in the energetic regulation of Ca2+-pumps and in the maintenance of Ca2+-homeostasis.

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