

Datasheet for ABIN1106704 anti-CKB antibody (N-Term) (Biotin)



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Overview			
Quantity:	50 μg		
Target:	CKB		
Binding Specificity:	N-Term		
Reactivity:	Human, Mouse, Rat, Rabbit		
Host:	Mouse		
Clonality:	Monoclonal		
Conjugate:	This CKB antibody is conjugated to Biotin		
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))		
Product Details			
Immunogen:	Synthetic 17-mer peptide corresponding to the N-terminal sequence of human creatine kinase brain-type		
Sequence:	SNSHNALKLR FPAEDEF		
Clone:	CK-BYK-21E10		
Isotype:	lgG2b		
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat, rabbit		
Purification:	Protein G		

Target Details

Target:	CKB				
Alternative Name:	CKBB (CKB Products)				
Background:	Human CKB is a protein of 381 amino acids (~45 kDa), expressed in a number of tissues. CKB is most abundant in adult brain, approx. 5-fold lower in the stomach, 10-fold lower in the heart and barely detectable in liver. In brain, whereas most CKB has been shown to be cytosolic, several of the reactions requiring CKB are membrane-associated. CKB belongs to the creatine kinase (CK) isoenzymes that catalyse the synthesis of phosphocreatine (PCr) and its subsequent use in the regeneration of ATP in cell types where the consumption of ATP is rapid and/or sudden. In the brain the different CK isoforms constitute an energy shuttle wherein ATP produced in the mitochondria is used by a mitochondrial CK [e.g. ubiquitous mitochondrial creatine kinase (uMi-CK)] to generate PCr, which is then transported and used by a cytoplasmic CK [e.g. brain creatine kinase (CKB)] to regenerate ATP at discrete cellular sites of high ATP turnover. CKB appears to have a role in regenerating ATP needed for the transport of ions and neurotransmitters since CKB has been localized to brain synaptic plasma membranes, possibly coupled to Na+/K+-ATPase and acetylcholine receptor-rich membranes. Expression of CKB is developmentally controlled: in rat, brain CKB protein at birth is extremely low and increases 10-fold until week 4. This reflects the many energy-demanding processes in brain during brain development.Synonyms: B-CK, CKB, Creatine kinase B chain, Creatine kinase B-type, Creatine kinase BB				
UniProt:	P12277				
Application Details					
Application Notes:	Optimal working dilution should be determined by the investigator.				
Restrictions:	For Research Use only				
Handling					
Concentration:	0.1 mg/mL				
Buffer:	PBS, 0.02 % sodium azide, 0.1 % bovine serum albumin				
Preservative:	Sodium azide				
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.				
Storage:	4 °C				

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Storage Comment:

Store at 2 - 8 °C.