Calpain 1 Monoclonal Mouse Antibody (CAPN1/1530)



Call us: 800-304-5357

Product Description

Calpain 1 is an intracellular calcium-dependent protease that cleaves cytoskeletal and sub-membrand Calpains are non-lysosomal, calcium-activated intracellular cysteine proteases. Calpains mediate spe dependent processes including cell fusion, mitosis and meiosis. Calpains are heterodimers of a small subunit and one of three large catalytic subunits, designated Calpain 1, Calpain 2 and Calpain p94. C regulates Calpain by inhibiting both the proteolytic activity of Calpain and its binding to membranes. C exists in two types, tissue type and erythrocyte type, resulting from both alternative splicing and protein processing. Calpain 1 co-localizes with human leukocyte antigen-DR (HLA-DR) on activated microglia brain. Calpain influences the process of spermatogenesis and the events preceding fertilization, such acrosome reaction. Primary antibodies are available purified, or with a selection of fluorescent CF® dy labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for de abundance targets, because blue dyes have lower fluorescence and can give higher non-specific bac other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation of primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dy conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

	Product attributes			
	Antibody number	#1530		
	Antibody reactivity (target) Antibody type	Calpain 1		
		Primary		
	Host species	Mouse		
	Clonality	Monoclonal		
	Clone	CAPN1/1530		
	Isotype	IgG1, kappa		
	Molecular weight	~80 kDa		
nous proteins. ecific Ca2 – I regulatory Calpastatin Calpastatin colytic ia in the aging n as the dyes and other e information. etecting low ckground than options, dye and biotin @biotium.com	Synonyms	Calpain 1; Calcium dependent protease small subunit 1; Calcium-activated neutral proteinase 1; Calpain 1 large subunit Calpain mu-type; Calpain-1 catalytic subunit; CANP1; CANPL1; CAPN1		
	Human gene symbol	CAPN1		
	Entrez gene ID	823		
	SwissProt	P07384		
	Unigene	502842		
	Immunogen	Recombinant full-length human CAPN1 protein		
	Antibody target cellular	Cytoplasmic, Plasma membrane		
	Verified antibody applications Species reactivity	IHC (FFPE) (verified)		
		Human		

Positive control

Shipping condition

Storage Conditions

conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C For research use only (RUO) Regulatory status Antibody/conjugate formulation

Email: btinfo@biotium.com

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide

HeLa cells. Skin or Tonsil.

Store at 2 to 8 °C, Protect fluorescent

Room temperature

Guaranteed for at least 24 months from date of receipt when stored as recommended Shelf life

Antibody research areas Cytoskeleton

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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This datasheet was generated on July 18, 2024 at 01:12:31 PM. Visit product page to check for updated information before use. Product link: https://biotium.com/product/calpain-1-monoclonal-mouse-antibody-capn1-1530/