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# Recombinant Mouse Ctsb protein (rFc Tag)



Catalog Number: Eg3028

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;1.0 EU/μg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Mouse Ctsb protein His18-Phe339 (Accession# P10605) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 13030</p> <p><b>Accession:</b> P10605</p> <p><b>Predicted Molecular Mass:</b> 60.9 kDa</p> <p><b>SDS-PAGE:</b></p> <p><b>Formulation:</b> Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>CTSB (cathepsin B), a member of the cysteine cathepsin family, was primarily found as a cysteine protease that was involved in the degradation of lysosomal proteins. Cathepsin B is secreted as a pro-enzyme and is activated to its active form via various molecules. Cathepsin B was identified as the major enzyme responsible for endosomal proteolysis of internalized epidermal growth factor receptor complexes and insulin-like growth factor-I. Cathepsin B also degrades preformed extracellular oligomeric and fibrillar amyloid in aged APP transgenic mice.</p>		
References	<ol style="list-style-type: none"><li>1. Gondi, Christopher S, and Jasti S Rao. Expert opinion on therapeutic targets vol. 17,3 (2013): 281-91.</li><li>2. Wang, Chao et al. The Journal of biological chemistry vol. 287,47 (2012): 39834-41.</li><li>3. Guicciardi, M E et al. The American journal of pathology vol. 159,6 (2001): 2045-54.</li><li>4. Stahl, Sonja et al. Biochimica et biophysica acta vol. 1774,10 (2007): 1237-46.</li></ol>		
Synonyms	Cathepsin B, Cathepsin B heavy chain, Cathepsin B light chain, Cathepsin B1, EC:3.4.22.1		
For technical support and original validation data for this product please contact			
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)		E: proteintech@ptglab.com W: ptglab.com	
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