## Cathepsin B Conjugated Antibody

Catalog No: #C48206

SAB Signalway Antibody

Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Package Size: #C48206-AF350 100ul #C48206-AF405 100ul #C48206-AF488 100ul

#C48206-AF555 100ul #C48206-AF594 100ul #C48206-AF647 100ul

#C48206-AF680 100ul #C48206-AF750 100ul #C48206-Biotin 100ul

## Description

Clonality Polyclonal  Species Reactivity Hu  Immunogen Description Synthetic peptide (KLH-coupled) within human Cathepsin B C-terminal.  Conjugates Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750  Other Names Amyloid precursor protein secretase antibody APP secretase antibody APPS antibody CATB_HUMAN antibody Cathepsin B heavy chain antibody Cathepsin B1 antibody CathepsinB antibody CPSB antibody CTSB antibody cysteine protease antibody OTTHUMP00000116009 antibody OTTHUMP00000229510 antibody OTTHUMP00000229511 antibody OTTHUMP00000229511 antibody OTTHUMP00000229514 antibody OTTHUMP00000229515 antibody OTTHUMP00000229516 antibody Preprocathepsin B antibod Accession No.  Swiss-Prot#:P07858  Uniprot P07858  GeneID 1508;  Excitation Emission AF350: 346nm/442nm  AF405: 401nm/421nm  AF405: 401nm/421nm  AF488: 493nm/519nm  AF559: 555nm/565nm  AF594: 591nm/614nm  AF647: 651nm/667nm  AF680: 679nm/702nm  AF750: 749nm/775nm  Calculated MW 38 KDa  Formulation 0.01M Sodium Phosphate, 0.25M NaCI, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide	Product Name	Cathepsin B Conjugated Antibody
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Uniprot         P07858           GeneID         1508;           Excitation Emission         AF350: 346nm/442nm           AF405: 401nm/421nm         AF488: 493nm/519nm           AF555: 555nm/565nm         AF555: 555nm/565nm           AF594: 591nm/614nm         AF647: 651nm/667nm           AF680: 679nm/702nm         AF750: 749nm/775nm           Calculated MW         38 kDa           Formulation         0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide		antibody OTTHUMP00000229515 antibody OTTHUMP00000229516 antibody Preprocathepsin B antibody
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	Calculated MW	38 kDa
Storage Store at 4°C in dark for 6 months	Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
	Storage	Store at 4°C in dark for 6 months

## **Application Details**

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250
AF405 conjugated: most applications: 1: 50 - 1: 250
AF488 conjugated: most applications: 1: 50 - 1: 250
AF555 conjugated: most applications: 1: 50 - 1: 250
AF594 conjugated: most applications: 1: 50 - 1: 250
AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250 AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

Cathepsin B is an enzymatic protein belonging to the peptidase (or protease) families. In humans, it is coded by the CTSB gene. A wide array of diseases results in elevated levels of cathepsin B, which causes numerous pathological processes including cell death, inflammation, and production of toxic peptides. Focusing on neurological diseases, cathepsin B gene knockout studies in an epileptic rodent model have shown cathepsin B causes a significant amount of the apoptotic cell death that occurs as a result of inducing epilepsy. Mutations in the CTSB gene have been linked to tropical pancreatitis, a form of chronic pancreatitis.

Note: This product is for in vitro research use only