

Anti-Cathepsin B Polyclonal Antibody

Product Details

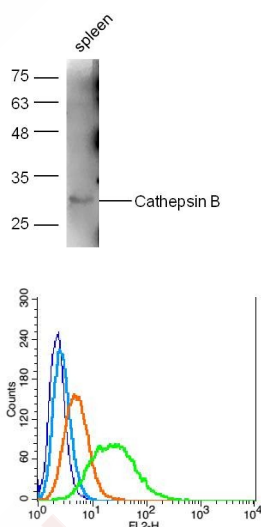
Ig Type: IgG
 Reactivity: Human, Mouse, Rat
 Molecular Weight: Theoretical: 23/28/37 kDa. Actual: 30 kDa.
 Purification: Protein A purified

Applications

1. Sample:
 Spleen (Mouse) Lysate at 40 µg
 Primary: Anti-Cathepsin B (TMAB-00297) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 46/28 kDa
 Observed band size: 30 kDa

2. Blank control: RSC96 (blue). Primary Antibody: Rabbit Anti-Cathepsin B antibody (TMAB-00297), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-PE (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Verified Activity:
 Protocol
 The cells were fixed with 2% paraformaldehyde (10 min). Antibody (TMAB-00297, 5 µg/1x10⁶ cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of TMAB-00297 at 1/200 dilution for 30 min on ice.



Application: FCM, IF, IHC-Fr, WB
 Recommended: WB: 1:500-2000; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

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: KLH conjugated synthetic peptide: human Cathepsin B heavy chain

Antigen Species: Human

Gene ID: 1508

Uniprot ID: P07858

Synonyms: cathepsin B

Biology Area: Cathepsins, Cell adhesion, Extracellular matrix, Adhesion molecules ELISA kits, Membrane Proteins, Other Enzymes

Research Background

The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

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