

Rabbit anti-Mouse, Rat LOC134147/CMBL Polyclonal Antibody | anti-CmbI antibody

Anti-LOC134147/CMBL Antibody

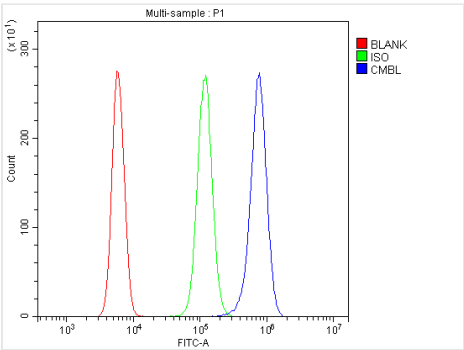
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125732	Rabbit	Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

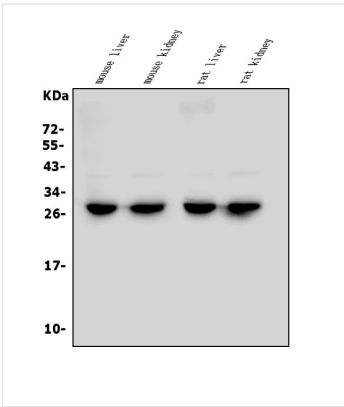
LOC134147/CMBL; Polyclonal Antibody; Anti-LOC134147/CMBL Antibody; CmbI; Carboxymethylenebutenolidase homolog; EC 3. 1. -. -; carboxymethylenebutenolidase-like; anti-CmbI antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for LOC134147/CMBL detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-CmbI antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of mouse LOC134147/CMBL (YIEEARRNLIEWLNKYV).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of RAW264. 7 cells using anti-LOC134147/CMBL antibody (AAA125732).Overlay histogram showing RAW264. 7 cells stained with AAA125732 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LOC134147/CMBL Antibody (AAA125732, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of LOC134147/CMBL using anti-LOC134147/CMBL antibody (AAA125732).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: mouse liver tissue lysatesLane 2: mouse kidney tissue lysatesLane 3: rat liver tissue lysatesLane 4: rat kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-LOC134147/CMBL antigen affinity purified polyclonal antibody (Catalog # AAA125732) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LOC134147/CMBL at approximately 28KD. The expected band size for LOC134147/CMBL is at 28KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CmbI antibody	CMBL is a cysteine hydrolase of the dienelactone hydrolase family that is highly expressed in liver cytosol. CMBL preferentially cleaves cyclic esters, and it activates medoxomil-ester prodrugs in which the medoxomil moiety is linked to an oxygen atom.
References	1. Ishizuka, T., Fujimori, I., Kato, M., Noji-Sakikawa, C., Saito, M., Yoshigae, Y., Kubota, K., Kurihara, A., Izumi, T., Ikeda, T., Okazaki, O. Human carboxymethylenebutenolidase as a bioactivating hydrolase of olmesartan medoxomil in liver and intestine. J. Biol. Chem. 285: 11892-11902, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31712014
NCBI GeneID	69574
NCBI Accession #	NP_853619.1
NCBI GenBank Nucleotide #	NM_181588.3
UniProt Accession #	Q8R1G2; Q8C1N1
Molecular Weight	27,902 Da
NCBI Official Full Name	carboxymethylenebutenolidase homolog
NCBI Official Synonym Full Names	carboxymethylenebutenolidase-like (Pseudomonas)
NCBI Official Symbol	CmbI
NCBI Official Synonym Symbols	2310016A09Rik
NCBI Protein Information	carboxymethylenebutenolidase homolog
UniProt Protein Name	Carboxymethylenebutenolidase homolog

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/loc134147-cmb1-antibody-flow-cytometry-western-blot-elisa/125732>