

32-5956: Mouse Anti Human Carboxymethylenebutenolidase (Clone: PAT2B11AT.)

Clonality :	Monoclonal
Clone Name :	PAT2B11AT.
Gene :	CMBL
Gene ID :	134147
Uniprot ID :	Q96DG6
Format :	Purified
Alternative Name :	Carboxymethylenebutenolidase homolog, CMBL, JS-1.
Isotype :	Mouse IgG2a heavy chain and lambda light chain.
Immunogen Information :	Anti-human CMBL mAb is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human CMBL 1-245 amino acids purified from E. coli.

Description

Carboxymethylenebutenolidase homolog (CMBL) is a cysteine hydrolase of the diene lactone hydrolase family which is highly expressed in the liver cytosol. CMBL is the human homolog of *Pseudomonas* diene lactone hydrolase, which is a protein that participates in the bacterial halocatechol degradation pathway. CMBL which preferentially cleaves cyclic esters activates medoxomil-ester prodrugs in which the medoxomil moiety is coupled with an oxygen atom. CMBL is inhibited by PCMB (p-chloromercuribenzoate) and is encoded by a gene which maps to human chromosome 5p15.2. Furthermore, CMBL converts the prodrug olmesartan medoxomil into its pharmacologically active metabolite olmerstatan, which is an angiotensin receptor blocker, in the liver and intestine. CMBL can also activate beta-lactam antibiotics faropenem medoxomil and lenampicillin. CMBL is widely expressed, with the highest levels in the liver, followed by the kidney, small intestine and the colon.

Product Info

Amount :	20 µg
Purification :	CMBL antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

CMBL antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1:5000. Recommended starting dilution is 1:500.