

Anti-ALOX5 Polyclonal Antibody

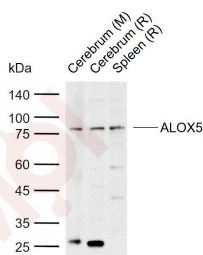
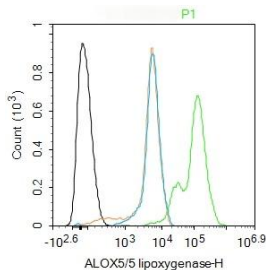
Product Details

Ig Type: IgG
Reactivity: Human, Mouse, Rat (predicted: Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight: Theoretical: 78 kDa. Actual: 78 kDa.
Purification: Protein A purified

Applications

Verified Activity:

- Blank control (black line): A431. Primary Antibody (green line): Rabbit Anti-ALOX5/5 lipoxygenase antibody (TMAB-00101)
Dilution: 1 $\mu\text{g}/\text{Test}$;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 $\mu\text{g}/\text{Test}$.
Isotype control (orange line): Normal Rabbit IgG
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C , The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
- Sample:
Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Lane 3: Rat Spleen tissue lysates
Primary: Anti-ALOX5 (TMAB-00101) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 78 kDa
Observed band size: 78 kDa



Application: FCM, WB

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Recommended WB: 1:500-2000; 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 ALOX5

Antigen Species: Human

Gene ID: 240

Uniprot ID: P09917

Synonyms: LOG5;EC 1.13.11.34;Arachidonate 5-lipoxygenase;5-lipoxygenase;5-LO;ALOX 5

Biology Area: Hormone biosynthesis,Lipoprotein metabolism,Hormone biosynthesis,Energy Metabolism,
Lipoprotein metabolism,Heart disease,Energy Metabolism

Research Background

This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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