



ALOX5 (Phospho Ser663) mouse mAb

| Catalog No | BYmab-17169 |
|--------------------|--|
| Isotype | lgG |
| Reactivity | Human, Mouse,Rat |
| Applications | WB |
| Gene Name | ALOX5 LOG5 |
| Protein Name | Arachidonate 5-lipoxygenase (5-LO) (5-lipoxygenase) (EC 1.13.11.34) |
| Immunogen | Synthesized peptide derived from human ALOX5 (Phospho Ser663) |
| Specificity | This antibody detects endogenous levels of ALOX5 (Phospho Ser663) Mouse mAb at Human, Mouse,Rat |
| Formulation | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. |
| Source | Mouse,Monoclonal |
| Purification | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| Dilution | WB 1:500-2000 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | Arachidonate 5-lipoxygenase (5-LO) (5-lipoxygenase) (EC 1.13.11.34) |
| Observed Band | 78kD |
| Cell Pathway | Cytoplasm . Nucleus matrix . Nucleus membrane ; Peripheral membrane protein . Cytoplasm, perinuclear region . Cytoplasm, cytosol . Nucleus envelope . Nucleus intermembrane space . Shuttles between cytoplasm and nucleus (PubMed:19233132). Found exclusively in the nucleus, when phosphorylated on Ser-272 (PubMed:18978352). Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association (PubMed:19233132, PubMed:3118366, PubMed:8245774, PubMed:16275640) |
| Tissue Specificity | |
| Function | catalytic activity:Arachidonate + O(2) = leukotriene A(4) + H(2)O.,cofactor:Binds 1 iron ion per subunit.,cofactor:Binds 2 calcium ions per subunit.,function:Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory |
| | processes.,pathway:Lipid metabolism; leukotriene A4 biosynthesis.,PTM:Serine phosphorylation by MAPKAPK2 is stimulated by arachidonic acid. Phosphorylation on Ser-523 by PKA has an inhibitory effect. Phosphorylation on |

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| | DIADSCIENCE |

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| | Ser-272 prevents export from the nucleus.,similarity:Belongs to the lipoxygenase family.,similarity:Contains 1 lipoxygenase domain.,similarity:Contains 1 PLAT domain.,subcellular location:Shuttles between cytoplasm and nucleus. Found exclusively in the nucleus, when phosphorylated on Ser-272. Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association.,subun |
|---------------------------|--|
| Background | arachidonate 5-lipoxygenase(ALOX5) Homo sapiens 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-eicosatetrenoic 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 encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012], |
| matters needing attention | Avoid repeated freezing and thawing! |
| Usage suggestions | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |
| | |

Products Images



Western Blot analysis of various cells using ALOX5 (Phospho Ser663) mouse mAb

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