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## 5-lipoxygenase Antibody

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 251179

**Unit:** 0.1 mg

**Description:**

Arachidonate 5-lipoxygenase (ALOX5) catalyzes the first step in leukotriene biosynthesis and plays a role in inflammatory processes. 5-lipoxygenase is expressed specifically in bone marrow-derived cells. This enzyme 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). Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma. These mutations are also associated with atherosclerosis and several cancers.

**Isotype:** Rabbit Ig

**Applications:** E, WB, IHC

**Species Reactivity:** H, M, R

**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** Arachidonate 5-lipoxygenase; 5-lipoxygenase; 5-LO; ALOX5; 5-LOX; LOG5

**Accession No.:** P09917

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human 5-lipoxygenase.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.