

Phospho-ALOX5 (Ser523) Antibody

CATALOG NO.: A1714-100 100 µl.

BACKGROUND DESCRIPTION: 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.

ALTERNATE NAMES: ALOX5, 5-LOX, Arachidonate 5-lipoxygenase.

ANTIBODY TYPE: Polyclonal

CONCENTRATION: 1mg/ml

HOST/ISOTYPE: Rabbit / IgG.

IMMUNOGEN: A synthesized peptide derived from human ALOX5 around the phosphorylation site of Sersine 523..

MOLECULAR WEIGHT: 77kDa.

PURIFICATION: Affinity purification.

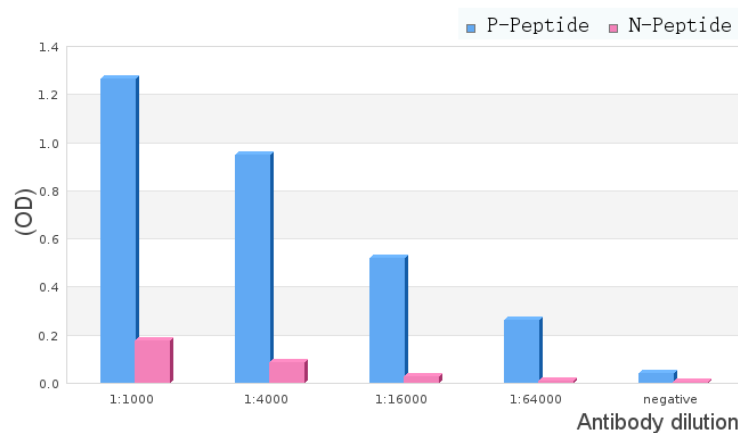
FORM: Liquid.

FORMULATION: In phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

SPECIES REACTIVITY: Rat.
Human.

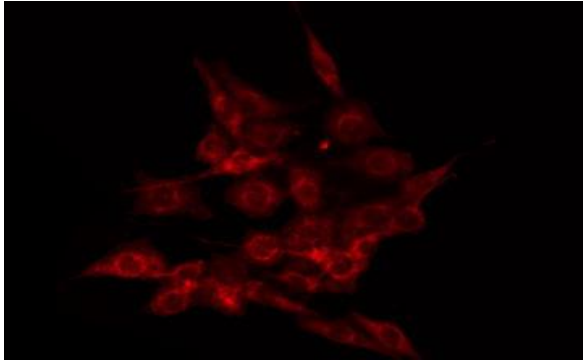
STORAGE CONDITIONS: Store at -20°C; For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

APPLICATIONS AND USAGE: ELISA (peptide) 1:20000-1:40000.
WB 1:500-1:2000.
IF/ICC 1:100-1:500.

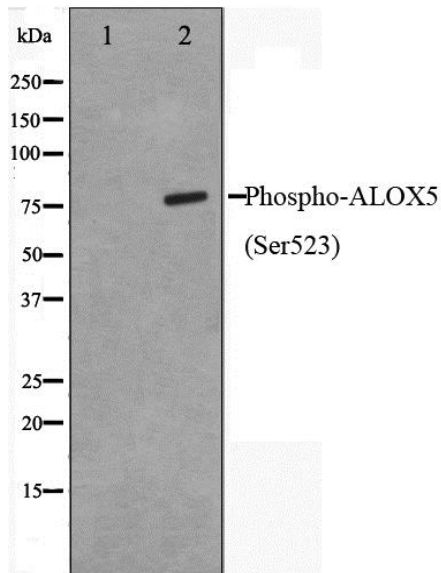


ELISA analysis of Phospho-ALOX5 (Ser523) Antibody showing specificity to Phospho-ALOX5 (Ser523) peptide. Peptides concentration: 1µg/ml.

P-peptide: phospho-peptide;
N-peptide: non-phospho-peptide.



IF/ICC staining of HuvEc cells using Phospho-ALOX5 (Ser523) Antibody.



Western blot analysis on HuvEc cell lysate using Phospho-ALOX5 (Ser523) Antibody. The lane on the left is treated with the antigen-specific peptide.

RELATED PRODUCTS:

- 5-Lipoxygenase Inhibitor Screening Kit (Fluorometric) (K980).
- 5-Lipoxygenase, Active, Human Recombinant (P1373).
- Lipoxygenase Activity Assay Kit (Fluorometric) (K978).

FOR RESEARCH USE ONLY! Not to be used on humans.