

# Recombinant Full Length Human ALOX5AP Protein, GST-tagged

**Cat. No.** ALOX5AP-1482HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ALOX5AP full-length ORF ( AAH18538, 1 a.a. - 161 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 161 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>This gene encodes a protein which, with 5-lipoxygenase, is required for leukotriene synthesis. Leukotrienes are arachidonic acid metabolites which have been implicated in various types of inflammatory responses, including asthma, arthritis and psoriasis.</p> <p>This protein localizes to the plasma membrane. Inhibitors of its function impede translocation of 5-lipoxygenase from the cytoplasm to the cell membrane and inhibit 5-lipoxygenase activation. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2011]</p> |
| <b>Molecular Mass</b>   | 43.45 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MDQETVGNVV LLAIVTLISV VQNGFFAHKV EHESRTQNGR SFQRTGTLAF<br>ERVYTANQNC VDAYPTFLAV LWSAGLLCSQ VPAAAFAGLMY LFVRQKYFVG<br>YLGERTQSTP GYIFGKRIIL FLFLMSVAGI FNYYLIFFFG SDFENYIKTI STTISPLLLI<br>P                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                    |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                    |

## GENE INFORMATION

|                        |                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ALOX5AP arachidonate 5-lipoxygenase-activating protein [ Homo sapiens ]                                                                             |
| <b>Official Symbol</b> | ALOX5AP                                                                                                                                             |
| <b>Synonyms</b>        | ALOX5AP; arachidonate 5-lipoxygenase-activating protein; five lipoxygenase activating protein; FLAP; MK 886 binding protein; MK-886-binding protein |
| <b>Gene ID</b>         | 241                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_001204406                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_001191335                                                                                                                                        |
| <b>MIM</b>             | 603700                                                                                                                                              |
| <b>UniProt ID</b>      | P20292                                                                                                                                              |

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