

## CAB2877

---

### Product Information

|                     |         |                      |        |                    |                 |
|---------------------|---------|----------------------|--------|--------------------|-----------------|
| <b>Product SKU:</b> | CAB2877 | <b>Gene ID:</b>      | 240    | <b>Size:</b>       | 20uL, 100uL     |
| <b>Clone No:</b>    | ARC1926 | <b>Host Species:</b> | Rabbit | <b>Reactivity:</b> | Human,Mouse,Rat |

---

### Additional Information

|                       |       |                   |              |
|-----------------------|-------|-------------------|--------------|
| <b>Observed MW:</b>   | 78kDa | <b>Conjugate:</b> | Unconjugated |
| <b>Calculated MW:</b> | 78kDa | <b>Isotype:</b>   | IgG          |

---

### Immunogen Information

|                              |  |
|------------------------------|--|
| <b>Background:</b>           | 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 encoding different isoforms have been found for this gene. |
| <b>Recommended Dilution:</b> | WB,1:500 - 1:1000 IHC-P,1:50 - 1:200 IF/ICC,1:50 - 1:200   |
| <b>Synonyms:</b>             | 5-LO; 5LPG; LOG5; 5-LOX; ALOX5   |
| <b>Purification Method:</b>  | Affinity purification  |
| <b>Immunogen:</b>            | A synthetic peptide corresponding to a sequence within amino acids 100-200 of human ALOX5 (P09917).  |
| <b>Storage:</b>              | Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.   |