**Leukocyte-type 12-LO (I-17): sc-27364**

**BACKGROUND**

Lipoxygenases are a family of enzymes that dioxygenate unsaturated fatty acids, thus initiating lipoperoxidation of membranes, the synthesis of signalling molecules as well as inducing structural and metabolic changes in the cell. The LOX enzymes in mammals, 12-LO and 15-LO, are classified with respect to their positional specificity of the dioxygenation of their most common substrate, arachidonic acid. The metabolism of arachidonic acid leads to the generation of biologically active metabolites that have been implicated in cell growth and proliferation, as well as survival and apoptosis. Leukocyte-type 12-LO is a 663 amino acid lipoxygenase that is found in leukocytes, aorta, kidney, small intestine and the pineal and pituitary glands. Leukocyte-type 12-LO binds one iron ion per subunit and contains one lipoxygenase domain and one PLAT domain.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Alox15 (mouse) mapping to 11 B3.

**SOURCE**

Leukocyte-type 12-LO (I-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Leukocyte-type 12-lipoxygenase of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27364 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% BSA).

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.