

5 Lipoxygenase Polyclonal Antibody

Catalog number: 10021-1-Ig

Size: 79 µg/150 µl

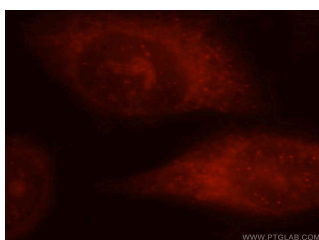
Source: Rabbit

Isotype: IgG

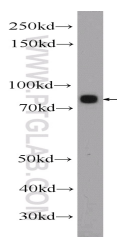
Synonyms:

ALOX5; 5 Lipoxygenase, 5 LO, 5

LOX, 5LPG, ALOX5, LOG5



Immunofluorescent analysis of HeLa cells, using ALOX5 antibody 10021-1-Ig at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



HL-60 cells were subjected to SDS PAGE followed by western blot with 10021-1-Ig(ALOX5 Antibody) at dilution of 1:600

Background

ALOX5(arachidonate 5-lipoxygenase) is also named as LOG5, 5-LO and belongs to the lipoxygenase family. It catalyzes the first step in leukotriene biosynthesis, and plays a role in inflammatory processes. It is a 78 kDa iron-containing enzyme that translocates from the cytosol to associate with FLAP, and converts arachidonate in two steps into the unstable intermediate LTA4. It is essential for cysteinyl-leukotriene (cys-LT) production, critical mediators in asthma(PMID:12911785).

Applications

| | |
|-------------------------------|---|
| Tested applications: | ELISA, IF, WB |
| Cited applications: | WB |
| Species specificity: | Human, Mouse; other species not tested. |
| Cited species: | Human |
| Calculated 5 Lipoxygenase MW: | 674aa, 78 kDa |
| Observed 5 Lipoxygenase MW: | ~70 kDa |
| Positive WB detected in | HL-60 cells, DU 145 cells |
| Positive IF detected in | HeLa cells |
| Recommended dilution: | WB: 1:200-1:2000 IF: 1:10-1:100 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

| | |
|---------------------------|-----------------------------|
| Immunogen: | Recombinant Protein |
| GenBank accession number: | BC130332 |
| Gene ID (NCBI): | 240 |
| Full name: | Arachidonate 5-lipoxygenase |

Product information

| | |
|----------------------|---|
| Purification method: | Protein A purification |
| Storage: | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |