12-Lipoxygenase (mouse leukocyte) Polyclonal Antiserum
Item No. 160304

Contents: This vial contains sufficient antiserum for ten (10 x 10 cm) immunoblots
Synonyms: 12-LO, 12-LOX
Host: Rabbit
Antigen: Purified mouse recombinant leukocyte 12-lipoxygenase
Cross-reactivity: (+) Human, mouse, and porcine leukocyte 12-LO and rabbit reticulocyte 15-LO; other species not tested
Stability: ≥1 year at -20°C
Applications: Western blot (WB); the recommended starting dilution for WB is 1:1,000. Other applications were not attempted and therefore optimal working dilutions should be determined empirically.

Laboratory Procedures
This vial contains rabbit serum against mouse recombinant leukocyte 12-lipoxygenase (12-LO). For long term storage, we suggest the antiserum be stored as supplied at -20°C; it will be stable for at least one year. For immunoblotting experiments, dilute 10 μl of the antiserum to 10 ml with any buffer suitable for your experiment. For other applications, the working concentration of the antiserum must be determined empirically.

12-LO is a non-heme iron-containing dioxygenase which stereospecifically incorporates molecular oxygen into cis,cis-1,4-pentadiene containing polyunsaturated fatty acids. Mouse leukocyte 12-LO oxidizes arachidonic acid to 12(S)-HpETE and 15(S)-HpETE in a ratio of 3:1.1 Mouse leukocyte 12-LO is a 75 kDa protein which is 58% homologous to mouse platelet 12-LO, and 70% homologous to porcine leukocyte 12-LO.1-3 It also shows 78% and 77% identity to human and rabbit 15-lipoxygenases, respectively.2,3

References

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