

Datasheet: AHP1538

Description:	RABBIT ANTI 5-LIPOXYGENASE (pSer523)
Specificity:	5-LIPOXYGENASE (pSer523)
Other names:	5-LO
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (1)	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat Based on sequence similarity, is expected to react with: Primate N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to phosphorylated 5-lipoxygenase were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	10mM HEPES pH7.5, 150mM NaCl
Preservative	0.09% Sodium Azide
Stabilisers	0.01% Bovine Serum Albumin

50% Glycerol

Immunogen Synthetic phosphopeptide corresponding to an amino acid sequence within human 5-lipoxygenase which includes the phosphorylated residue Ser523.

External Database

Links

UniProt:

[P09917](#) [Related reagents](#)

Entrez Gene:

[240](#) ALOX5 [Related reagents](#)

Synonyms

LOG5

Specificity

Rabbit anti 5-lipoxygenase (pSer523) antibody recognizes 5-lipoxygenase (5-LO), also known as arachidonate 5-lipoxygenase, when phosphorylated at serine 523. 5-LO is an enzyme that catalyses the synthesis of leukotrienes (LTs) from arachidonic acid (a polyunsaturated fatty acid), by the insertion of an oxygen into the arachidonic backbone. 5-LO requires calcium, ATP and the 5-LO-activating protein as cofactors for full activity. Leukotrienes are synthesised and secreted by leukocytes in response to immunologic or inflammatory stimuli, such as in asthma and allergic reactions. The biological effects of LTs include leukocyte chemotaxis, pulmonary airway constriction, mucous hypersecretion, vasoconstriction and increased vascular permeability. In recent years 5-LO has also been implicated in the regulation of cell proliferation and apoptosis and has been found in a broad variety of cancer cells.

Western Blotting

AHP1538 detects a doublet of approximately 80kDa in rat cortex lysate.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10088 available at:

10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),

[DyLight®680](#), [DyLight®800](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com
'M303183:170203'

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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