
LOX 1 Rabbit pAb

Catalog Number: bs-2044R

Target Protein: LOX 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse, Rat, Rabbit (predicted: Cow)

Predicted MW: 31/50 kDa

Subcellular: Secreted, Cell membrane

Locations:

Source: KLH conjugated synthetic peptide derived from rabbit LOX-1: 201-273/273.

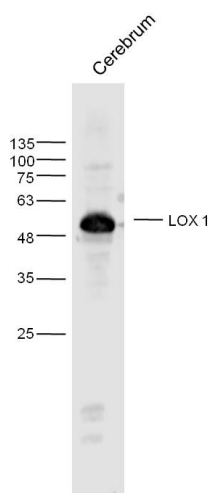
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

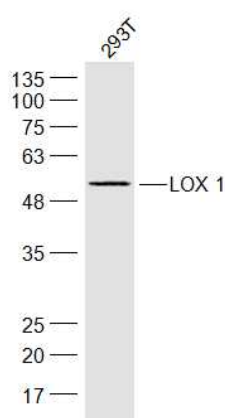
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive bacteria.

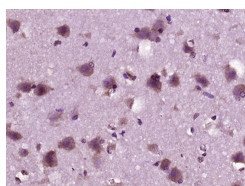
VALIDATION IMAGES



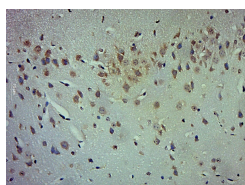
Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti- LOX1 (bs-2044R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31/50 kD Observed band size: 50 kD



Sample: 293T(Human) Cell Lysate at 30 ug Primary: Anti-LOX 1 (bs-2044R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31/50 kD Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (Rabbit brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LOX 1) Polyclonal Antibody, Unconjugated (bs-2044R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LOX 1) Polyclonal Antibody, Unconjugated (bs-2044R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.4] Tingting Hao. et al. Phosphatidylethanolamine alleviates OX-LDL-induced macrophage inflammation by upregulating autophagy and inhibiting NLRP1 inflammasome activation. FREE RADICAL BIO MED. 2023 Nov;208:402 WB ; Fish . 37660837

[IF=5.201] Qian Liet al. LOX-1 Regulates P. gingivalis-Induced Monocyte Migration and Adhesion to Human Umbilical Vein Endothelial Cells. Front Cell Dev Biol . 2020 Jul 14;8:596. WB ; Human . 32793587

[IF=4.8] Yun Sun. et al. Vasicine attenuates atherosclerosis via lipid regulation, inflammation inhibition, and autophagy activation in ApoE^{-/-} mice. INT IMMUNOPHARMACOL. 2024 Dec;142:112996 IF ; Mouse . 39243558

[IF=3.8] Lei Haoyue. et al. LOX-1 regulation of H-type vascular endothelial cell regeneration in hyperglycemia. ACTA DIABETOL. 2024 Jan;:1-10 WB,IF ; Rat . 38244081

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

[IF=3.4] Li, Cui, et al. "The Role of LOX-1 in Innate Immunity to Aspergillus fumigatus in Corneal Epithelial CellsLOX-1 in Corneal Epithelium to Fungal Infection." Investigative Ophthalmology & Visual Science 56.6 (2015): 3593-3603. IHC ; ="Rat" . 26047046