Data Sheet (Cat.No.TMAB-01080)

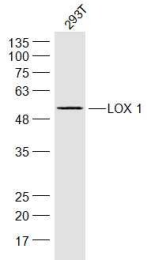
Anti-LOX-1 Polyclonal Antibody

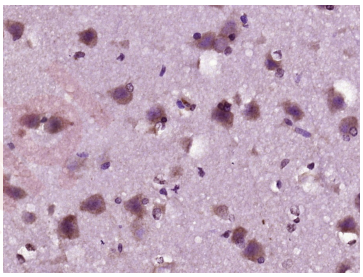
Product Details

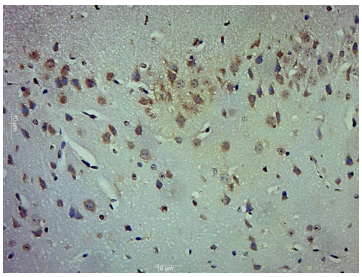
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Rabbit (predicted:Cow)
Molecular Weight:	Theoretical: 31/50 kDa. Actual: 50 kDa.
Purification:	Protein A purified

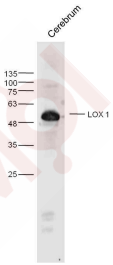
Applications

Verified Activity:	1. Sample: 293t (Human) Cell Lysate at 30 μg Primary: Anti-LOX 1 (TMAB-01080) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31/50 kDa Observed band size: 50 kDa 2. Paraformaldehyde-fixed, paraffin embedded (Rabbit brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LOX 1) Polyclonal Antibody, Unconjugated (TMAB-01080) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LOX 1) Polyclonal Antibody, Unconjugated (TMAB-01080) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining. 4. Sample: Cerebrum (Rat) Lysate at 40 μg Primary: Anti-LOX1 (TMAB-01080) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31/50 kDa Observed band size: 50 kDa









Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: rabbit LOX-1
Antigen Species:	Rabbit
Synonyms:	Lectin-like oxidized LDL receptor 1;Oxidized low-density lipoprotein receptor 1, soluble form B; LOX-1;OLR1;Contains: Oxidized low-density lipoprotein receptor 1, soluble form A;Lectin-like oxLDL receptor 1;Oxidized low-density lipoprotein receptor 1;lectin-like low density lipoprotein receptor-1;Lectin-type oxidized LDL receptor 1;Ox-LDL receptor 1;BLOX1
Biology Area:	Cholesterol Metabolism,Cholesterol Metabolism

Research 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.

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