Product datasheet

Anti-OLR1 Antibody

Catalog Number: *A00760-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-OLR1 Antibody
Gene Name	Olr1
Source	Rabbit
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived rat LOX 1/Olr1 recombinant protein (Position: Q55-Q364).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	52KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (ELISA)： 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

OLR1(oxidized low density lipoprotein (lectin-like) receptor 1) also called CLEC8A,LOX-1,SCARE1,is a receptor protein which belongs to the°C-type lectin superfamily. The OLR1 gene encodes a cell-surface endocytosis receptor for oxidized low density lipoprotein (OxLDL). This gene is mapped on 12p13.2. Incubation of the cells with LDL had no effect on LOX1 expression,but incubation with OxLDL resulted in a dose-dependent increase in LOX1 mRNA and protein expression; however,very high concentrations of OxLDL caused a decrease in OxLDL expression,perhaps indicating toxic effects on endothelial cells. LOX1 was also expressed in macrophages,but not in vascular smooth muscle cells. The findings suggested a role for LOX1 in the pathophysiology of atherosclerotic cardiovascular disease. LOX1 expression was detected in all choroidal neovascular membranes,regardless of structure,whereas there was no evidence of LOX1 within the posterior segments of normal eyes. LOX1 plays an active role in the pathogenesis of choroidal neovascularization,especially in ARMD.

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Selected Validation Data

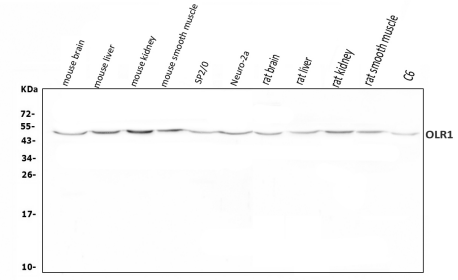

Figure 1. Western blot analysis of anti- OLR1 Antibody (A00760-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse brain tissue lysates,
Lane 2: mouse liver tissue lysates,
Lane 3: mouse kidney tissue lysates,
Lane 4: mouse smooth muscle tissue lysates,
Lane 5: SP2/0 whole cell lysates,
Lane 6: Neuro-2a whole cell lysates,
Lane 7: rat brain tissue lysates,
Lane 8: rat liver tissue lysates,
Lane 9: kat kidney tissue lysates,
Lane 10: rat smooth muscle tissue lysates,
Lane 11: C6 whole cell lysates.
Use rabbit anti- OLR1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for OLR1 at approximately 52KD. The expected band size for OLR1 is at 42KD.

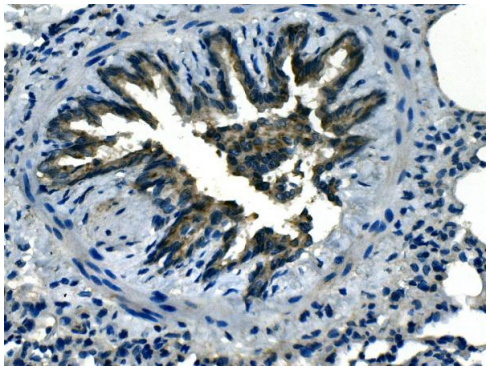

Figure 2. IHC analysis of anti-Olr1 antibody (A00760-3).detected in paraffin-embedded section of rat lung tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

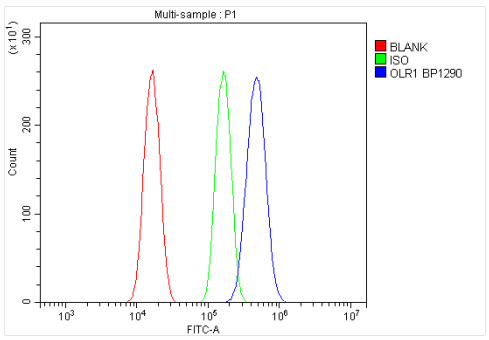

Figure 3.Flow cytometry analysis of Neuro-2a cell(1x106) DyLight488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight488. Unlabelled sample (Red line).

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