recMAb™ Anti-LOXL2 Antibody

11/20

CATALOG NO.: **A2242-100 (100 µl)**

BACKGROUND DESCRIPTION: This gene encodes a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyzes the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family.

ALTERNATE NAMES: LOR, LOR2, WS9-14, LOXL2, EC 1.4.3.13, EC 1.4.3

ANTIBODY TYPE: Monoclonal

CLONE: 2E5

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: Synthetic peptide derived from human LOXL2

MOLECULAR WEIGHT: 53 kDa

PURIFICATION: Affinity purified

FORM: Liquid

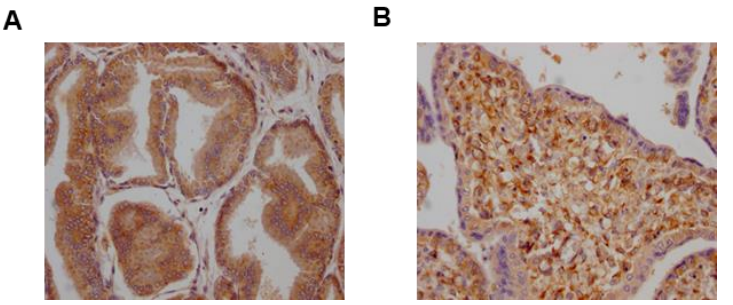
FORMULATION: In PBS, pH 7.4, 150 mM NaCl, 50% glycerol, 0.02% sodium azide

SPECIES REACTIVITY: Human, Mouse, Rat

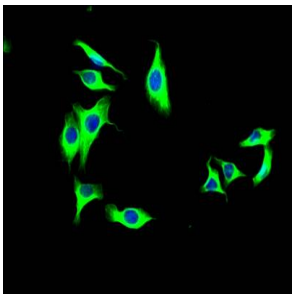
STORAGE CONDITIONS: Store at -20ºC. Avoid freeze/thaw cycles

APPLICATIONS AND USAGE: WB 1:500-1:5000, IHC 1:50-1:200, IF 1:20-1:200, FC 1:20-1:200

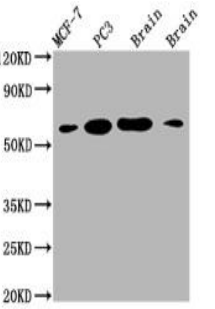
This information is only intended as a guide. The optimal dilutions must be determined by the user



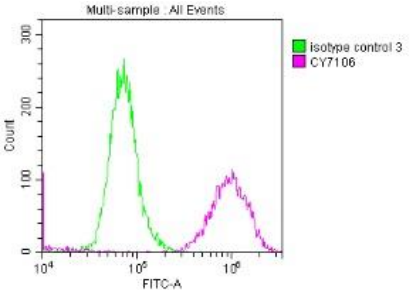
Immunohistochemical analysis of paraffin-embedded human prostate (A) and human placenta (B) tissue was performed using recMAb™ Anti-LOXL2 antibody at a dilution of 1:100. After dewaxing and hydration, the section was subjected to antigen retrieval in a citrate buffer (pH 6.0). The tissue section was blocked with 10% normal goat serum for 30 min at RT, and then incubated with primary antibody (1% BSA) at 4°C overnight. HRP-conjugated Goat anti-rabbit IgG was used as secondary antibody and visualization was done using 0.05% DAB.



Immunofluorescence staining of HepG2 cells was performed with recMAb™ Anti-LOXL2 antibody at a dilution of 1:50. Fixation of the cells was done with 4% formaldehyde, then permeabilized with 0.2% TritonX-100, and blocked in 10% normal goat serum. The cells were then incubated with primary antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. FITC-conjugated Goat Anti-Rabbit IgG (H+L) was used as secondary antibody.



Western Blot analysis of MCF-7, PC3, mouse brain and rat brain whole cell lysates was performed using recMAb™ Anti-LOXL2 antibody at a dilution of 1:2000. Goat polyclonal to rabbit IgG was used as secondary antibody at a dilution of 1:50,000.



Flow cytometric analysis of A549 cells was performed using recMAb™ Anti-LOXL2 antibody (pink line) at a dilution of 1:50. The cells were first fixed with 70% ethanol (18 hrs) followed by incubation in blocking buffer (10% normal goat serum). The cells were then treated with primary antibody (concentration 1 µg per 10^6cells) for 1 hr at 4°C. FITC-conjugated goat anti-rabbit IgG (H+L) was used as secondary antibody at a dilution of 1:200 for 30 min at 4°C. Rabbit IgG served as control antibody (green line) (concentration 1µg per 10^6cells). Data acquisition cutoff was set at 10,000 events.

RELATED PRODUCTS:

Anti-HER2/ErbB2 Antibody (A2212)
Akt/PKB Antibody (3247)
Wnt-1 Antibody (5754)
Anti-mTOR Rabbit Monoclonal Antibody (A1595)

FOR RESEARCH USE ONLY! Not to be used on humans.