

LOXL2 recombinant antibody

LOXL2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA243973	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

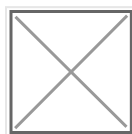
PRODUCT SYNONYMS

LOXL2; Monoclonal Recombinant Antibody; LOXL2 Antibody; Lysyl oxidase homolog 2 (EC 1.4.3.13) (Lysyl oxidase-like protein 2) (Lysyl oxidase-related protein 2) (Lysyl oxidase-related protein WS9-14); LOXL2 recombinant antibody

PRODUCT SPECIFICATIONS

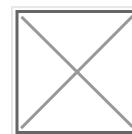
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	2E5
Purity/Purification	Affinity-chromatography
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, PH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Applicable Applications for LOXL2 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Antibody Type	Recombinant Antibody
Conjugation	Non-conjugated
Immunogen	A synthesized peptide derived from human LOXL2
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Overlay histogram showing A549 cells stained with (red line) at 1?50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followedby the antibody (1ug/1*106cells) for 1 h at 4?.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4?. Control antibody (green line) was Rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



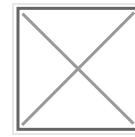
IF (Immunofluorescence)

Immunofluorescence staining of HepG2 Cells at 1?50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG ?H+L?.



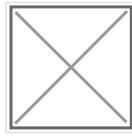
IHC (Immunohistochemisry)

IHC image diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC (Immunohiostchemistry)

IHC image diluted at 1:100 and staining in paraffin-embedded human prostate tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



WB (Western Blot)

Western BlotPositive WB detected in: MCF-7 whole cell lysate, PC3 whole cell lysate, Mouse brain tissue, Rat brain tissueAll lanes: LOXL2 antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 87 kDaObserved band size: 53 kDa

ADDITIONAL INFORMATION

Related Product Information for LOXL2 recombinant antibody	Mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in extracellular matrix, promotes cross-linking of extracellular matrix proteins by mediating oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. Acts as a regulator of sprouting angiogenesis, probably via collagen IV scaffolding. When nuclear, acts as a transcription corepressor and specifically mediates deamination of trimethylated 'Lys-4' of histone H3 (H3K4me3), a specific tag for epigenetic transcriptional activation. Involved in epithelial to mesenchymal transition (EMT) via interaction with SNAI1 and participates in repression of E-cadherin, probably by mediating deamination of histone H3. Also involved in E-cadherin repression following hypoxia, a hallmark of epithelial to mesenchymal transition believed to amplify tumor aggressiveness, suggesting that it may play a role in tumor progression. Acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation.
Product Categories/Family for LOXL2 recombinant antibody	Cancer ; Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505011
NCBI GeneID	4017
NCBI Accession #	NP_002309.1
NCBI GenBank Nucleotide #	NM_002318.2
UniProt Accession #	Q9Y4K0 ; Q53HV3 ; Q9BW70 ; Q9Y5Y8 ; B2R5Q0
Molecular Weight	86,725 Da
NCBI Official Full Name	lysyl oxidase homolog 2
NCBI Official Synonym Full Names	lysyl oxidase like 2
NCBI Official Symbol	LOXL2
NCBI Official Synonym Symbols	LOR2; WS9-14
NCBI Protein Information	lysyl oxidase homolog 2
UniProt Protein Name	Lysyl oxidase homolog 2
UniProt Gene Name	LOXL2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/loxl2-recombinant-antibody-clone-2e5-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/243973>