

Anti-LOX Picoband Antibody

Catalog # ABO12404

Product Information

Application	WB, E
Primary Accession	P28300
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Protein-lysine 6-oxidase(LOX) detection. Tested with WB, ELISA in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4015
Other Names	Protein-lysine 6-oxidase, 1.4.3.13, Lysyl oxidase, LOX
Calculated MW	46944
Application Details	ELISA , 0.1-0.5 µg/ml, Human, - Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human
Subcellular Localization	Secreted, extracellular space.
Tissue Specificity	Heart, placenta, skeletal muscle, kidney, lung and pancreas. .
Source	Eukaryota
Protein Name	Protein-lysine 6-oxidase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human LOX (240-268aa AEENCLASTAYRADVRDYDHRVLLRFPQR), different from the related mouse and rat sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	LOX
Function	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin (PubMed: 26838787). Regulator of Ras expression. May play a role in tumor suppression. Plays a role in the aortic wall architecture (By similarity).
Cellular Location	Secreted. Secreted, extracellular space
Tissue Location	Heart, placenta, skeletal muscle, kidney, lung and pancreas.

Background

Lysyl oxidase (LOX), also known as protein-lysine 6-oxidase, is a protein that, in humans, is encoded by the LOX gene. The protein encoded by this gene is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition to crosslinking extracellular matrix proteins, the encoded protein may have a role in tumor suppression. Defects in this gene are a cause of autosomal recessive cutis laxa type I (CL type I). Two transcript variants encoding different isoforms have been found for this gene.

Images



Anti- LOX Picoband antibody, ABO12404, Western blotting
All lanes: Anti LOX (ABO12404) at 0.5ug/ml
Lane 1: Rat Lung Tissue Lysate at 50ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Lane 3: Rat Thymus Tissue Lysate at 50ug
Lane 4: Mouse Kidney Tissue Lysate at 50ug
Predicted bind size: 31KD
Observed bind size: 31KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.