

Rabbit Anti-LOXL2 [MD340R]: RM0059, RM0059RTU7

Intended Use: For Research Use Only

Description: Lysyl oxidase (LOX) proteins belong to a family of enzymes that oxidize primary amine substrated to reactive aldehydes. LOX is involved in tumor suppression, cell motility, cellular senescence and developmental regulation. There are four homologs of LOX, lysyl oxidase-like proteins, designated LOX-like proteins (LOXL1-4). LOXL2 is an extracellular protein that localizes specifically to sites of elastogenesis. It serves as a cross-linking enzyme, controlling the deposition of elastin and interacts with Fibulin-5. LOXL2 and LOXL3 can interact and cooperate with the Snail protein to downregulate Ecadherin expression. Overexpression of LOXL2 has been reported in a number of cancers and its ability to promote epithelial to mesenchymal transition suggest that it might play a role in tumor progression. Knockdown of the LOXL2 protein significantly decreases tumor growth. Higher expression has been correlated with metastasis and reduced survival in patients with aggressive breast cancer. LOXL2 activity is strongly induced in hypoxia and it is reported to be a direct transcriptional target of HIF1A.

Specifications:

Clone: MD340R Rabbit Source: Isotype: IgG Reactivity: Human

Immunogen: Recombinant human LOXL2 protein amino terminus

Localization: Cytoplasm, secreted

Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)

Store at 2°-8°C Storage: Applications: IHC, WB

Package:

Description	Catalog No.	Size
LOXL2 [MD340R] Concentrated	RM0059	1 ml
LOXL2 [MD340R] Prediluted	RM0059RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Prostate, placenta, ovary, esophageal cancer

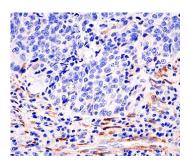
Concentrated Dilution: 25-200

Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT

Refer to the detection system manual Detection:

^{*} Result should be confirmed by an established diagnostic procedure.



FFPE human lung adenocarcinoma stained with anti-LOXL2 using DAB

References:

- 1. Insights into the biophysical forces between proteins involved in elastic fiber assembly. O'Neill Moore S, et al. J Mater Chem B 8:9239-9250, 2020.
- 2. Tumor-suppressive microRNA-29 family inhibits cancer cell migration and invasion directly targeting LOXL2 in lung squamous cell carcinoma. Mizuno K, et al. Int J Oncol 48:450-60, 2016.

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