



Monoclonal Anti-human Lysyl Oxidase Homolog 2 Antibody

ORDERING INFORMATION

Catalog Number: MAB2639

Clone: 262418

Lot Number: UMO01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human LOXL2

Immunogen: NS0-derived rhLOXL2

Ig class: mouse IgG_{2b}

Recommended Applications:

Western blot
Immunoprecipitation

Other Application:

Direct ELISA

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human lysyl oxidase homolog 2 (rhLOXL2; aa 26 - 744). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. LOXL2 is expressed in many tissues with high levels in reproductive tissues (placenta, uterus, and prostate).

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody was selected for its ability to recognize human LOXL2 in western blots and direct ELISAs.

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human LOXL2. Using a colorimetric detection system, the detection limit for rhLOXL2 is approximately 25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Immunoprecipitation - This antibody was used at a concentration of 25 µg/mL to immunoprecipitate rhLOXL2 from conditioned cell culture media.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human LOXL2. The detection limit for rhLOXL2 is approximately 1 ng/well.

Optimal dilutions should be determined by each laboratory for each application.