

Product Information

Monoclonal Anti-AXL, clone AXL188

produced in mouse, purified immunoglobulin

Catalog Number **SAB4200618**

Product Description

Monoclonal Anti-AXL (mouse IgG1 isotype) is derived from the hybridoma AXL188 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal sequence of human AXL (GeneID: 558). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-AXL recognizes human and monkey AXL. The product may be used in several immunochemical techniques including immunoblotting (~ 130kDa), immunocytochemistry and flow cytometry.

Axl is a receptor tyrosine kinase that was originally cloned from cancer cells. Axl belongs to a TAM (Tyro3, Axl and Mertk) family of receptor tyrosine kinases. Its ligand is Gas6 (Growth arrest specific gene 6). Activation of Axl protects cells from apoptosis, and increases migration, aggregation and growth through multiple downstream pathways.¹ Axl has been found to play a significant role in pathogenesis and progression of human cancers (e.g. breast, pancreatic, glioma, hepatic cellular carcinoma and more). It was also suggested to serve as an important biomarker for disease status and prognosis. There are ongoing studies on its unique structure and role in cancer genesis and as a therapeutic target for drug development.^{2,3}

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 0.5-1.0 µg/mL is recommended using A549 total cell extracts.

Immunofluorescence: a working concentration of 20 µg/mL is recommended using A549 cells.

Flow Cytometry: a working dilution of 20 µg /test is recommended using A549 cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Korshunov, V.A., *Clin. Sci. (Lond)*, **122**, 361-368 (2012).
2. Verma, A., et al., *Mol. Cancer Ther.*, **10**, 1763-1773 (2011).
3. Linger, R.M., et al., *Expert Opin. Ther. Targets.*, **14**, 1073-1090 (2010).

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