SANTA CRUZ BIOTECHNOLOGY, INC.

Axl (H-124): sc-20741

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The UFO family of receptor tyrosine kinases is comprised of subfamily members Rse (also designated Tyro3, Sky, Brt, Dtk, Etk2 and Tif), Axl (also designated UFO or ARK) and Mer (also designated Nyk or Eyk). Rse is expressed preferentially in the adult brain with lower expression in other tissues. Axl is found at highest levels in heart and skeletal muscle. Mer has been identified as a tyrosine kinase potentially involved in the development of glioblastomas. It is expressed at highest levels in ovary, prostate, lung and kidney. Gas6, a growth arrest specific gene, and the related anticoagulation factor protein S have been identified as ligands for the UFO family of receptors.

REFERENCES

1. Janssen, J.W., et al. 1991. A novel putative tyrosine kinase receptor with oncogenic potential. Oncogene 6: 2113-2120.
2. Jia, R., et al. 1994. The proto-oncogene of v-eyk (v-ryk) is a novel receptor-type protein tyrosine kinase with extracellular Ig/GN-III domains. J. Biol. Chem. 269: 1839-1844.

CHROMOSOMAL LOCATION

Genetic locus: AXL (human) mapping to 19q13.2; Axl (mouse) mapping to 7 A3.

SOURCE

Axl (H-124) is a rabbit polyclonal antibody raised against amino acids 771-894 mapping at the C-terminus of Axl of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Axl (H-124) is recommended for detection of Axl of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Axl (H-124) is also recommended for detection of Axl in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Axl siRNA (h): sc-29769, Axl siRNA (m): sc-29770, Axl shRNA Plasmid (h): sc-29769-SH, Axl shRNA Plasmid (m): sc-29770-SH, Axl shRNA (h) Lentiviral Particles: sc-29769-V and Axl shRNA (m) Lentiviral Particles: sc-29770-V.

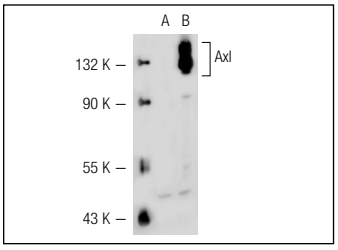
Molecular Weight of Axl: 140 kDa.

Positive Controls: Axl (h): 293T Lysate: sc-114191, CCD-1064Sk cell lysate: sc-2263 or NIH/3T3 whole cell lysate: sc-2210.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



Axl (H-124): sc-20741. Western blot analysis of Axl expression in non-transfected: sc-117752 (**A**) and human Axl transfected: sc-114191 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Valverde, P., et al. 2004. Role of Gas6/Axl signaling in lens epithelial cell proliferation and survival. Exp. Eye Res. 78: 27-37.
2. Shieh, Y.S., et al. 2005. Expression of axl in lung adenocarcinoma and correlation with tumor progression. Neoplasia 7: 1058-1064.
3. Geatrell, J.C., et al. 2009. Apoptosis gene profiling reveals spatio-temporal regulated expression of the p53/MDM2 pathway during lens development. Exp. Eye Res. 88: 1137-1151.
4. Cosemans, J.M., et al. 2010. Potentiating role of Gas6 and Tyro3, Axl and Mer (TAM) receptors in human and murine platelet activation and thrombus stabilization. J. Thromb. Haemost. 8: 1797-1808.
5. He, L., et al. 2010. Differential expression of Axl in hepatocellular carcinoma and correlation with tumor lymphatic metastasis. Mol. Carcinog. 49: 882-891.
6. Vuoriluoto, K., et al. 2011. Vimentin regulates EMT induction by Slug and oncogenic H-Ras and migration by governing Axl expression in breast cancer. Oncogene 30: 1436-1448.
7. Chen, P.X., et al. 2013. Axl and prostasin are biomarkers for prognosis of ovarian adenocarcinoma. Ann. Diagn. Pathol. 17: 425-429.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **Axl (H-3): sc-166269** or **Axl (B-2): sc-166268**, our highly recommended monoclonal aternatives to Axl (H-124). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Axl (H-3): sc-166269**.