Axl (H-3): sc-166269



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

- Janssen, J.W., et al. 1991. A novel putative tyrosine kinase receptor with oncogenic potential. Oncogene 6: 2113-2120.
- Jia, R. and Hanafusa, H. 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.

SOURCE

AxI (H-3) is a mouse monoclonal antibody raised against amino acids 771-894 of AxI of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

AxI (H-3) is available conjugated to agarose (sc-166269 AC), 500 $\mu g/0.25$ ml agarose in 1 ml, for IP; to HRP (sc-166269 HRP), 200 $\mu g/ml$, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166269 PE), fluorescein (sc-166269 FITC), Alexa Fluor® 488 (sc-166269 AF488), Alexa Fluor® 546 (sc-166269 AF546), Alexa Fluor® 594 (sc-166269 AF594) or Alexa Fluor® 647 (sc-166269 AF647), 200 $\mu g/ml$, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166269 AF680) or Alexa Fluor® 790 (sc-166269 AF790), 200 $\mu g/ml$, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

AxI (H-3) is recommended for detection of AxI of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

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

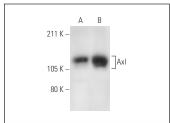
Molecular Weight of AxI: 140 kDa.

Positive Controls: FHs 173We cell lysate: sc-2417, Caki-1 cell lysate: sc-2224 or Axl (h): 293T Lysate: sc-114191.

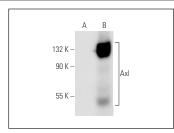
STORAGE

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

DATA







AxI (H-3): sc-166269. Western blot analysis of AxI expression in non-transfected: sc-117752 (A) and human AxI transfected: sc-114191 (B) 293T whole cell Ivsates

SELECT PRODUCT CITATIONS

- Shin, H., et al. 2017. Tropomyosin isoform Tpm2.1 regulates collective and amoeboid cell migration and cell aggregation in breast epithelial cells. Oncotarget 8: 95192-95205.
- 2. Ho, Y.J., et al. 2018. Single-cell RNA-seq analysis identifies markers of resistance to targeted BRAF inhibitors in melanoma cell populations. Genome Res. 28: 1353-1363.
- Gallardo, M., et al. 2019. Curcumin rescues breast cells from epithelialmesenchymal transition and invasion induced by anti-miR-34a. Int. J. Oncol. 56: 480-493.
- 4. Böhme, I., et al. 2020. Extracellular acidosis triggers a senescence-like phenotype in human melanoma cells. Pigment Cell Melanoma Res. 33: 41-51.
- McDaniel, N.K., et al. 2020. AXL mediates cetuximab and radiation resistance through tyrosine 821 and the c-Abl kinase pathway in head and neck cancer. Clin. Cancer Res. 26: 4349-4359.
- Kwon, J., et al. 2020. AKT drives sustained motility following MEK inhibition via promoting SNAIL and AXL in MDA-MB-231 LM2. Biochem. Biophys. Res. Commun. 528: 92-98.
- 7. Calaf, G.M., et al. 2020. Markers of epithelial-mesenchymal transition in an experimental breast cancer model induced by organophosphorous pesticides and estrogen. Oncol. Lett. 20: 84.
- 8. Song, W., et al. 2020. Axl inactivation inhibits mesothelioma growth and migration via regulation of p53 expression. Cancers 12: 2757.
- Pietrobono, S., et al. 2020. ST3GAL1 is a target of the SOX2-GLI1 transcriptional complex and promotes melanoma metastasis through Axl. Nat. Commun. 11: 5865.

RESEARCH USE

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