

Axl (h): 293T Lysate: sc-114191

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.
3. Mark, M.R., et al. 1994. Rse, a novel receptor-type tyrosine kinase with homology to Axl/UFO, is expressed at high levels in the brain. *J. Biol. Chem.* 269: 10720-10728.
4. Neubauer, A., et al. 1994. Expression of Axl, a transforming receptor tyrosine kinase, in normal and malignant hematopoiesis. *Blood* 84: 1931-1941.
5. Stitt, T.N., et al. 1995. The anticoagulation factor Protein S and its relative, Gas6, are ligands for the Tyro3/Axl family of receptor tyrosine kinases. *Cell* 80: 661-670.
6. Ling, L., et al. 1995. Mitogenic signals and transforming potential of Nyk, a newly identified neural cell adhesion molecule-related receptor tyrosine kinase. *Mol. Cell. Biol.* 15: 6582-6592.
7. Chen, J., et al. 1997. Identification of Gas6 as a ligand for Mer, a neural cell adhesion molecule related receptor tyrosine kinase implicated in cellular transformation. *Oncogene* 14: 2033-2039.

CHROMOSOMAL LOCATION

Genetic locus: AXL (human) mapping to 19q13.2.

PRODUCT

Axl (h): 293T Lysate represents a lysate of human Axl transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Axl (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Axl antibodies. Recommended use: 10-20 µl per lane.

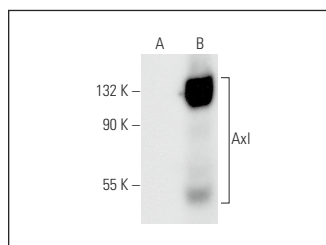
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Axl (H-3): sc-166269 is recommended as a positive control antibody for Western Blot analysis of enhanced human Axl expression in Axl transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

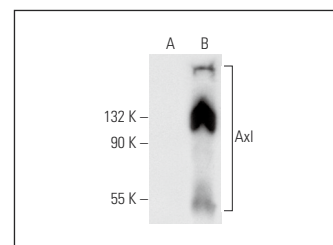
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



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



Axl (B-2): sc-166268. Western blot analysis of Axl expression in non-transfected: sc-117752 (A) and human Axl transfected: sc-114191 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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