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#5724

Phospho-Axl (Tyr702) (D12B2) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 138	Source/Isotype: Rabbit IgG	UniProt ID: #P30530	Entrez-Gene Id: 558
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #28451.

Specificity/Sensitivity

Phospho-Axl (Tyr702) (D12B2) Rabbit mAb detects endogenous levels of Axl only when phosphorylated at Tyr702. This antibody may also cross-react with other overexpressed, related tyrosine-phosphorylated tyrosine kinases, such as EGFR.

Species predicted to react based on 100% sequence homology

Mouse, Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr702 of human Axl protein.

Background

Axl, Sky, and Mer are three members of a receptor tyrosine kinase (RTK) family that share a conserved intracellular tyrosine kinase domain and an extracellular domain similar to those seen in cell adhesion molecules. These RTKs bind the vitamin K-dependent protein growth-arrest-specific gene 6 (Gas6), which is structurally related to the protein S anticoagulation factor (1). Upon binding to its receptor, Gas6 activates phosphatidylinositol 3-kinase (PI3K) and its downstream targets Akt and S6K, as well as NF-κB (2,3). A large body of evidence supports a role for Gas6/Axl signaling in cell growth and survival in normal and cancer cells (4).

Phosphorylation of Axl Receptor on Tyr702 was identified at Cell Signaling Technology (CST) using PhosphoScan®, CST's LC-MS/MS platform for phosphorylation site discovery (5). Phosphorylation of Axl on Tyr702 was also reported in select carcinoma cell lines (6).

Background References

- Crosier, K.E. and Crosier, P.S. (1997) *Pathology* 29, 131-5.
- Demarchi, F. et al. (2001) *J Biol Chem* 276, 31738-44.
- Lee, W.P. et al. (2002) *Oncogene* 21, 329-36.
- Bellosta, P. et al. (1997) *Oncogene* 15, 2387-97.
- Rikova, K. et al. (2007) *Cell* 131, 1190-203.
- Guo, A. et al. (2008) *Proc Natl Acad Sci USA* 105, 692-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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