

# Phospho-AxI (Y779) PE-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 713610

Catalog Number: IC6965P

25 Tests

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Phospho-AxI (Y779) in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 713610		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Phosphopeptide containing the human Axl Y779 site		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

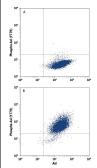
## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

## DATA

#### Intracellular Staining by Flow Cytometry



Detection of Phospho-Axl (Y779) in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line either (A) untreated or (B) treated with 100 nM Pervanadate for 10 minutes was stained with Mouse Anti-Human Phospho-Axl (Y779) PE-conjugated Monoclonal Antibody (Catalog # IC6965P) and Mouse Anti-Human Axl APC-conjugated Monoclonal Antibody (Catalog # FAB154A). Quadrant markers were set based on control antibody staining (Catalog # IC002P). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

# PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

# BACKGROUND

AxI (Ufo, Ark), Dtk (Sky, Tyro3, Rse, Brt), and Mer (human and mouse homologues of chicken c-Eyk) constitute a subfamily of the receptor tyrosine kinases (1, 2). The extracellular domains of these proteins contain two Ig-like motifs and two fibronectin type III motifs. This characteristic topology is also found in neural cell adhesion molecules and in receptor tyrosine phosphatases. The human AxI cDNA encodes an 887 amino acid (aa) precursor that includes an 18 as signal sequence, a 426 aa extracellular domain, a 21 aa transmembrane segment, and a 422 aa cytoplasmic domain. The extracellular domains of human and mouse AxI share 81% aa sequence identity. A short alternatively spliced form of human AxI is distinguished by a 9 aa deletion in the extracellular juxtamembrane region. These receptors bind the vitamin K-dependent protein growth arrest specific gene 6 (Gas6) which is structurally related to the anticoagulation factor Protein S. Binding of Gas6 induces receptor autophosphorylation and downstream signaling pathways that can lead to cell proliferation, migration, or the prevention of apoptosis (3). This family of tyrosine kinase receptors is involved in hematopoiesis, embryonic development, tumorigenesis, and regulation of testicular functions. Phosphorylation of Tyrosine 779 provides a docking site for p85 subunits of PI 3-Kinase (4).

# References:

- 1. Yanagita, M. (2004) Curr. Opin. Nephrol. Hypertens. 13:465.
- Nagata, K. et al. (1996) J. Biol. Chem. 22:30022.
- 3. Holland, S. *et al.* (2005) Cancer Res. **65**:9294
- Weinger, J.G. et al. (2008) J. Neurochem. 106:134.

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