

Phospho-Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681) (D6M4W) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Transfected Only	110-130, 125-140, 180-200	Rabbit IgG	#Q06418, #P30530, #Q12866	7301, 558, 10461

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
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.	
Specificity/Sensitivity	Phospho-Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681) (D6M4W) Rabbit mAb detects immunoprecipitated or transfected levels of Axl/Mer/Tyro3 protein phosphorylated at Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681). The antibody may cross-react with other phosphorylated tyrosine proteins.	
Species predicted to react based on 100% sequence homology	Mouse, Rat	
Source / Purification	Monoclonal antibody is produced by immunizing animals with synthetic phospho-peptides corresponding to residues surrounding Tyr698/Tyr749 of human Axl/Mer protein.	
Background	Axl, Mer and Tyro3 are three members of the TAM family receptor tyrosine kinase that share a common NCAM (neural adhesion molecule)-related extracellular domain and a conserved intracellular tyrosine kinase domain. These receptors bind common homologous vitamin K dependent protein GAS6 and protein S to activate downstream signaling pathways (1). TAM family receptors are involved in the development of immune, nervous, vascular and reproductive systems, autoimmune disease, cancer drug resistance and tumor immunity response (2-5). Axl (Tyr698), Axl (Tyr702), Mer Tyr(749) and Tyro3 (Tyr681) are conserved autophosphorylation sites located in the activation loop of the respective tyrosine kinase domains. Phosphorylation at these sites is required for full kinase activation of each of the corresponding receptors (6,7).	
Background References	<ol style="list-style-type: none"> 1. Rothlin, C.V. et al. (2015) <i>Annu Rev Immunol</i> 33, 355-91. 2. Burstyn-Cohen, T. (2017) <i>Int J Dev Biol</i> 61, 215-24. 3. Bellan, M. et al. (2016) <i>Int J Mol Sci</i> 17, pii: E1807. 4. Schoumacher, M. and Burbridge, M. (2017) <i>Curr Oncol Rep</i> 19, 19. 5. Akalu, Y.T. et al. (2017) <i>Immunol Rev</i> 276, 165-77. 6. Ling, L. et al. (1996) <i>J Biol Chem</i> 271, 18355-62. 7. Onken, J. et al. (2017) <i>Oncotarget</i> 8, 50403-14. 	
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human	
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