Store at -20°C

#18350

Tyro/Axl/Mer Activation Sampler Kit

Cell Signaling TECHNOLOGY®

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New 06/19

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
Phospho-Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681) (D6M4W) Rabbit mAb	44463	20 µl	110-130, 125-140, 180-200 kDa	Rabbit IgG
Phospho-Axl (Tyr702) (D12B2) Rabbit mAb	5724	20 µl	138 kDa	Rabbit IgG
Axl (C89E7) Rabbit mAb	8661	20 µl	138 kDa	Rabbit IgG
Mer (D21F11) XP® Rabbit mAb	4319	20 µl	210 kDa	Rabbit IgG
Tyro3 (D38C6) Rabbit mAb	5585	20 µl	110, 130 kDa	Rabbit IgG
GAS6 (D3A3G) Rabbit mAb	67202	20 µl	78 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

Description: The Tyro/Axl/Mer Activation Sampler Kit provides an economical means of detecting the activation of TAM family members using phospho-specific and control antibodies. The kit includes enough antibodies to perform two western blot experiments with each primary antibody.

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).

Specificity/Sensitivity: Phospho-Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681) (D6M4W) Rabbit mAb detects immunoprecipitated or transfected levels of Axl/Mer/Tyro3 protein when phosphorylated at Axl (Tyr698)/Mer (Tyr749)/Tyro3 (Tyr681). This antibody may cross-react with other phosphorylated tyrosine proteins. 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. Axl (C89E7) Rabbit mAb, Mer (D21F11) XP® Rabbit mAb, Tyro3 (D38C6) Rabbit mAb, and GAS6 (D3A3G) Rabbit mAb detected endogenous levels of each of the corresponding target proteins.

Source/Purification: Monoclonal antibodies are produced by immunizing rabbits with synthetic peptides corresponding to phospho-Tyr698/Tyr749 of human Axl/Mer, phospho-Tyr702 of human Axl, a recombinant fragment of human Axl, synthetic peptides corresponding to His925 of human Mer, Thr874 of human Tyro3, and recombinant protein specific to the amino terminus of human GAS6.

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.*

Please visit www.cellsignal.com for validation data and a complete listing of recommended companion products.

Background References:

(1) Rothlin, C.V. et al. (2015) *Annu Rev Immunol* 33, 355-91.

(2) Burstyn-Cohen, T. (2017) *Int J Dev Biol* 61, 215-24.

(3) Bellan, M. et al. (2016) *Int J Mol Sci* 17, pii: E1807.

(4) Schoumacher, M. and Burbridge, M. (2017) *Curr Oncol Rep* 19, 19.

(5) Akalu, Y.T. et al. (2017) *Immunol Rev* 276, 165-77.

(6) Ling, L. et al. (1996) *J Biol Chem* 271, 18355-62.

(7) Onken, J. et al. (2017) *Oncotarget* 8, 50403-14.

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Applications: W—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity: H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.