Revision 1

#73070 Store at -20C

IL1RAP (E2G6A) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	78	Rabbit IgG	#Q9NPH3	3556

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

IL1RAP (E2G6A) Rabbit mAb recognizes endogenous levels of total IL1RAP protein.

Species predicted to react based on 100% sequence homology:

Dog, Horse

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IL1RAP protein.

Background

Interleukin-1 receptor accessory protein (IL1RAP/IL1R3) is a type-I transmembrane glycoprotein and component of the IL-1 and IL-33 receptor signaling complexes (1,2). Research studies have demonstrated that IL1RAP expression is required for IL-1-mediated signaling through its ability to recruit IRAK to the IL-1R complex (3-7). In the context of human disease, research studies have shown that IL1RAP is overexpressed on the surface of AML stem cells and associates with c-KIT and FLT3 to mediate pro-proliferative and pro-survival signaling events downstream of these oncogenic receptor tyrosine kinases (8,9). As such, IL1RAP has emerged as a novel immuno-therapeutic target for AML and other malignancies of the myeloid compartment (10,11).

Background References

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3. Radons, J. et al. (2002) *J Biol Chem* 277, 16456-63.
4. Huang, J. et al. (1997) *Proc Natl Acad Sci U S A* 94, 12829-32.
5. Wesche, H. et al. (1997) *J Biol Chem* 272, 7727-31.
6. Gould, L. et al. (1979) *J Clin Pharmacol* 19, 46-55.
7. Volpe, F. et al. (1997) *FEBS Lett* 419, 41-4.
8. Mitchell, K. et al. (2018) *J Exp Med* 215, 1709-27.
9. Barreyro, L. et al. (2012) *Blood* 120, 1290-8.
10. Askmyr, M. et al. (2013) *Blood* 121, 3709-13.
11. Ågerstam, H. et al. (2015) *Proc Natl Acad Sci U S A* 112, 10786-91.

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

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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 **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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