

Store at
-20C
#73070**IL1RAP (E2G6A) Rabbit mAb**

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|-------------------------------|-------------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------|--------------------------------|
| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 78 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9NPH3 | Entrez-Gene Id: 3556 |
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
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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- Radons, J. et al. (2002) *J Biol Chem* 277, 16456-63.
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- Wesche, H. et al. (1997) *J Biol Chem* 272, 7727-31.
- Gould, L. et al. (1979) *J Clin Pharmacol* 19, 46-55.
- Volpe, F. et al. (1997) *FEBS Lett* 419, 41-4.
- Mitchell, K. et al. (2018) *J Exp Med* 215, 1709-27.
- Barreyro, L. et al. (2012) *Blood* 120, 1290-8.
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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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