

Pellino-1 (D2Z4F) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 47	Source/Isotype: Rabbit IgG	UniProt ID: #Q96FA3	Entrez-Gene Id: 57162
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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

Pellino-1 (D2Z4F) Rabbit mAb recognizes endogenous levels of total Pellino-1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala403 of human Pellino-1 protein.

Background

Pellino-1 (PELI1) is an E3 ubiquitin ligase that regulates activation of various immune pathways in different contexts and cell types (1). Pellino-1 controls NFκB activation downstream of the interleukin-1 receptor and TLRs through association with and ubiquitination of IRAK1 (1-4). Pellino-1 was also demonstrated to regulate the NFκB pathway in T cells by targeting c-Rel for degradation, thereby enabling suppression by regulatory T cells, maintaining peripheral tolerance, and preventing autoimmunity in mice (5). Finally, in experimental autoimmune encephalomyelitis (EAE), the mouse model of multiple sclerosis, Pellino-1 contributes to inflammation by promoting degradation of Traf3 leading to induction of chemokines and proinflammatory cytokines (6).

Background References

- Schauvliege, R. et al. (2006) *FEBS Lett* 580, 4697-702.
- Jiang, Z. et al. (2003) *J Biol Chem* 278, 10952-6.
- Butler, M.P. et al. (2007) *J Biol Chem* 282, 29729-37.
- Murphy, M. et al. (2015) *J Biol Chem* 290, 19218-32.
- Chang, M. et al. (2011) *Nat Immunol* 12, 1002-9.
- Xiao, Y. et al. (2013) *Nat Med* 19, 595-602.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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