

ThPOK (D9V5T) Rabbit mAb

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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #O15156	Entrez-Gene Id: 51043
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

ThPOK (D9V5T) Rabbit mAb recognizes endogenous levels of total ThPOK protein. This antibody cross-reacts with a 40 kDa protein of unknown origin.

Source / Purification Background

Monoclonal antibody is produced by immunizing animals with recombinant human ThPOK protein.

The transcription factor Th-inducing POZ/Krüppel-like factor (ThPOK, ZBTB7B, cKROX, ZFP67) is a transcriptional repressor belonging to the POK/ZBTB family of lymphoid cell development regulators (1). ThPOK is best known as a signature CD4⁺ T_H cell transcription factor that is upregulated during the differentiation of CD4⁺ T_H but not CD8⁺ cytotoxic T cells (1). Expression of ThPOK in developing T cells represses expression of CD8 and cytotoxic T cell effector genes, and indirectly promotes expression of CD4 by antagonizing RUNX-mediated CD4 repression (2-4). ThPOK expression has also been observed in NKT cells and γδ T cells (5,6).

Background References

1. Sun, G. et al. (2005) *Nat Immunol* 6, 373-81.
2. Jenkinson, S.R. et al. (2007) *J Exp Med* 204, 267-72.
3. Wang, L. et al. (2008) *Immunity* 29, 876-87.
4. Wildt, K.F. et al. (2007) *J Immunol* 179, 4405-14.
5. Engel, I. et al. (2010) *J Exp Med* 207, 1015-29.
6. Alonzo, E.S. et al. (2010) *J Immunol* 184, 1268-79.

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 **M:** Mouse

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