

#13205 Store at -20°C

ThPOK (D9V5T) Rabbit mAb



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Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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

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

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

Background

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

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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