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-20C
#12632**FoxP3 (D6O8C) Rabbit mAb**

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

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, FC-FP	H	Endogenous	45	Rabbit IgG	#Q9BZ51	50943

Product Usage Information**Application**

Western Blotting
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:200

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.

For a carrier free (BSA and azide free) version of this product see product #19713.

Specificity/Sensitivity

FoxP3 (D6O8C) Rabbit mAb recognizes endogenous levels of total FoxP3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro293 of human FoxP3 protein.

Background

Forkhead box (Fox) proteins are a family of evolutionarily conserved transcription factors containing a sequence known as Forkhead box or winged helix DNA binding domain (1). The human genome contains 43 Fox proteins that are divided into subfamilies. The FoxP subfamily has four members, FoxP1 - FoxP4, which are broadly expressed and play important roles in organ development, immune response, and cancer pathogenesis (2-4). The FoxP subfamily has several characteristics that are atypical among Fox proteins: their Forkhead domain is located at the carboxy-terminal region and they contain motifs that promote homo- and heterodimerization. FoxP proteins usually function as transcriptional repressors (4,5).

FoxP3 is crucial for the development of T cells with regulatory properties (Treg) (6). Mutations in FoxP3 are associated with immune dysregulation, polyendocrinopathy, enteropathy, and X-linked syndrome (IPEX) (7), while overexpression in mice causes severe immunodeficiency (8). Research studies have shown that FoxP3 functions as a tumor suppressor in several types of cancer (9-11).

Background References

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- Lu, M.M. et al. (2002) *Gene Expr Patterns* 2, 223-8.
- Koon, H.B. et al. (2007) *Expert Opin Ther Targets* 11, 955-65.
- Li, S. et al. (2004) *Mol Cell Biol* 24, 809-22.
- Ochs, H.D. et al. (2007) *Immunol Res* 38, 112-21.
- Bennett, C.L. et al. (2001) *Nat Genet* 27, 20-1.
- Kasprowicz, D.J. et al. (2003) *J Immunol* 171, 1216-23.
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- Wang, L. et al. (2009) *Cancer Cell* 16, 336-46.

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 **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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