

**FoxD3 (D20A9) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	60	Rabbit IgG	#Q9UJU5	27022

**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**

FoxD3 (D20A9) Rabbit mAb detects transfected levels of total FoxD3 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues at the C-terminus of human FoxD3.

**Background**

FoxD3 is a member of the Forkhead Box family and is characterized by a winged-helix DNA-binding structure and the important role it plays in embryonic development (1). This transcriptional regulator is required for the maintenance of pluripotency in the pre-implantation and peri-implantation stages of mouse embryonic development (2) and is also required for trophoblast formation (3). FoxD3 is required for the maintenance of the mammalian neural crest; FoxD3<sup>-/-</sup> mouse embryos fail around the time of implantation with loss of neural crest-derived structures (4). FoxD3 also forms a regulatory network with Oct-4 and NANOG to maintain the pluripotency of ES cells (5,6).

**Background References**

1. Sutton, J. et al. (1996) *J Biol Chem* 271, 23126-33.
2. Hanna, L.A. et al. (2002) *Genes Dev* 16, 2650-61.
3. Tompers, D.M. et al. (2005) *Dev Biol* 285, 126-37.
4. Teng, L. et al. (2008) *Development* 135, 1615-24.
5. Pan, G. et al. (2006) *FASEB J* 20, 1730-2.
6. Liu, Y. and Labosky, P.A. (2008) *Stem Cells* 26, 2475-84.

**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

**Cross-Reactivity Key**

**H:** Human

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