Revision 1

Store at -20C

#40291

E2F4 (E3G2G) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, ChIP	H M R Mk	Endogenous	62	Rabbit IgG	#Q16254	1874

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Chromatin IP	1:50

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

E2F4 (E3G2G) Rabbit mAb recognizes endogenous levels of total E2F4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu405 of human E2F4 protein.

Background

The E2F family consists of 8 transcription factors that regulate genes that control cell cycle progression by complexing with DP and Rb proteins (1-4). E2F transcriptional activation is generally opposed by associating with RB proteins, pRB, p107, and p130 (5-7). E2F-1, -2, and -3a function as activators that can help quiescent cells enter S phase, while E2F-3b, -4, and -5 repress cell growth through the recruitment of HDAC's and other corepressors to target genes (8-10). E2F-6 diverges considerably from other family members, and has repressive properties governed not through interaction with Rb proteins, but by recruiting the polycomb repressive complex (11,12). E2F-7, and -8 are unique in that they have two DNA-binding domains and do not heterodimerize with DP proteins. These E2F family members repress transcription and delay progression of the cell cycle through the regulation of E2F-1 (13-15)

Background References

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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 **ChIP:** Chromatin IP

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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