#4737 Store at -20C

ORC6 (3A4) Rat mAb



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Applications: WB, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rat IgG2a	UniProt ID: #Q9Y5N6	Entrez-Gene Id: 23594	
Product Usage Information	App	olication		Dilution			
	Wes	stern Blotting		1:1000			
	Imm	nunoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensi		ORC6 (3A4) Rat mab recognizes endogenous levels ot total ORC6 protein. The antibody does not cross-react with other ORC subunits.					
Source / Purification	on Mond	Monoclonal antibody is produced by immunizing animals with full length recombinant human ORC6.					
Background	asso initia to str form cell c replic its in	The origin recognition complex (ORC) is a highly conserved heterohexameric protein complex that associates with DNA at or near initiation of DNA replication sites. All six ORC subunits are essential for initiation of DNA replication (1-3), and ORC may be involved in regulation of gene expression in response to stress (4). ORC binding to DNA permits the ordered binding of other proteins such as cdc6 and MCMs to form pre-replication complexes (Pre-RCs). Pre-RCs form between telophase and early G1 phase of the cell cycle and are inactivated at the onset of DNA synthesis, allowing coordinated regulation of DNA replication and cell division (5). Modification of one or more of the six ORC subunits may be responsible for its inactivation during S phase, but the chromatin binding behavior of the ORC subunits during the cell division cycle is still under investigation (6-7).					
Background Refer	2. Ba 3. Gi 4. Ra 5. Ro 6. De	 Machida, Y.J. et al. (2005) <i>J. Biol. Chem.</i> 280, 27624-27630. Baltin, J. et al. (2006) <i>J. Biol. Chem.</i> 281, 12428-12435. Gibson, D.G. et al. (2006) <i>Genes Cells</i> 11, 557-573. Ramachandran, L. et al. (2006) <i>FEMS Yeast Res.</i> 6, 763-776. Rowles, A. and Blow, J.J. (1997) <i>Curr. Opin. Genet. Dev.</i> 7, 152-157. DePamphilis, M.L. (2003) <i>Gene</i> 310, 1-15. McNairn, A.J. et al. (2005) <i>Exp. Cell. Res.</i> 308, 345-356. 					

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 nonfat dry milk, 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

 $\ensuremath{\mathbf{GP:}}$ Guinea Pig $\ensuremath{\mathbf{Rab:}}$ rabbit $\ensuremath{\mathbf{All:}}$ all species expected

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