

#8581 Store at -20C

## APR3 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	18	Rabbit	#Q6UW56	51374

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	APR3 Antibody recognizes endogenous levels of total APR3 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Monkey	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro29 of human APR3 protein (isoform a). Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Apoptosis related protein 3 (APR3), also known as C2orf28, is a membrane protein identified in HL-60 cells treated with all-trans retinoic acid (ATRA) and was later found to be induced by ATRA in other sensitive cell lines (1,2). APR3 is also up-regulated by NFAT and NF-κB activities (3). Regulation of APR3 by ATRA suggests a role in cell differentiation, but the mechanism of action is still unclear. Overexpression of APR3 can inhibit proliferation by inducing G1/S cell cycle arrest and decreasing expression of cyclin D1 (2). APR3 has also been shown to interact with NELL-1 to regulate osteoblast differentiation (4).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Zhu, F. et al. (2000) <i>Biotechniques</i> 29, 310-3.</li> <li>2. Yu, F. et al. (2007) <i>Biochem Biophys Res Commun</i> 358, 1041-6.</li> <li>3. Yang, G. et al. (2007) <i>Mol Cell Biochem</i> 302, 187-94.</li> <li>4. Zou, X. et al. (2011) <i>FEBS Lett</i> 585, 2410-8.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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