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# APR3 Antibody

Store at -20C  
#8581

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

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

## 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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

APR3 Antibody recognizes endogenous levels of total APR3 protein.

## Species predicted to react based on 100% sequence homology

Monkey

## Source / Purification

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.

## Background

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).

## Background References

- Zhu, F. et al. (2000) *Biotechniques* 29, 310-3.
- Yu, F. et al. (2007) *Biochem Biophys Res Commun* 358, 1041-6.
- Yang, G. et al. (2007) *Mol Cell Biochem* 302, 187-94.
- Zou, X. et al. (2011) *FEBS Lett* 585, 2410-8.

## 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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