

APR3 Rabbit pAb

Catalog # AP97280

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6UW56
Other Accession	Q6UW56
Reactivity	Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24747
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human APR3
Epitope Specificity	51-150/229
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 EGF-like domain.
SUBUNIT	Interacts with NELL1; the interaction promotes osteoblastic differentiation and mineralization.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is thought to be involved in apoptosis, and may also be involved in hematopoietic development and differentiation. The use of alternative splice sites and promoters result in multiple transcript variants encoding different isoforms.[provided by RefSeq, Dec 2009]

Additional Information

Gene ID	51374
Other Names	APR--3; APR-3; APR3; C2orf28; HSPC013; PRO240; p18; ARAID_HUMAN; ATRAID; Apoptosis-related protein 3 (APR-3); all-trans retinoic acid induced differentiation factor; chromosome 2 open reading frame 28; apoptosis-related protein 3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ATRAID (HGNC:24090)
Synonyms	APR3, C2orf28
Function	Promotes osteoblast cell differentiation and terminal mineralization. Plays a role in inducing the cell cycle arrest via inhibiting CCND1 expression in all-trans-retinoic acid (ATRA) signal pathway. In osteoclasts, forms a transporter complex with ATRAID for nitrogen-containing-bisphosphonates (N-BPs) required for releasing N-BP molecules that have trafficked to lysosomes through fluid-phase endocytosis into the cytosol (PubMed: 29745899).
Cellular Location	Nucleus envelope. Cell membrane; Single-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Note=Colocalizes with NELL1 on the nuclear envelope and the perinuclear region (PubMed:21723284)
Tissue Location	Weakly expressed in hematopoietic cell lines.

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