

UBE2V2 Polyclonal Antibody

Catalog NumberPA5-18037

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	Western Blot (WB)	0.2-1 µg/mL
Immunogen	Synthetic peptide sequence (AVSTGVKVPRNF) corresponding to the N-terminus amino acids of UBE2V2	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with bovine, canine, mouse and rat based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 32,000.

Background/Target Information

The differentiation and activation of monocytes (MO) and monocytic cells is modulated by 1alpha,25-dihydroxyvitamin D3 (Vitamin D3). Recently, using mRNA Differential Display technology, Fritsche J, et al have identified a gene which is induced in freshly isolated human blood MO that are cultured for 4 hours with Vitamin D3. This cDNA encodes a putative 16.5 kD protein. The product of this gene has structural homology with yeast MMS2p and human CROC-1), which defines a structurally and functionally conserved Ubc-like protein family. This protein was called Ubiquitin E2 variant (UBE2V2) or MMS2 (methyl methanesulfonate sensitive 2). The yeast UEV protein, Mms2, is required together with Ubc13 for RAD6/RAD18-dependent postreplicative DNA repair in yeast. These proteins also play a central role in the assembly of K63-linked polyubiquitin chains (4,5) UEV/Ubc complexes have been implicated in the assembly of Lys63-linked polyubiquitin chains that act as a novel signal in postreplicative DNA repair and Ikbα kinase activation. Recent crystal structure analysis provides direct evidence that the Mms2/Ubc13 heterodimer is necessary for DNA repair.

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