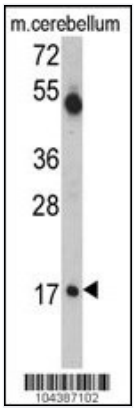
UBE2V1 Antibody – Rabbit Polyclonal

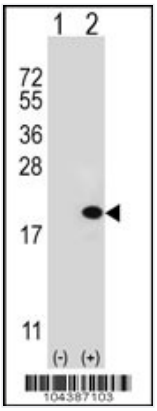
PRODUCT OVERVIEW

Product Name	UBE2V1, Polyclonal Antibody
Full Product Name	UBE2V1 Antibody (C-term)
Product Gene Name	anti-UBE2V1 antibody
Product Synonym Names	Ubiquitin-conjugating enzyme E2 variant 1; UEV-1; CROC-1; TRAF6-regulated IKK activator 1 beta Uev1A; UBE2V1; CROC1; UBE2V; UEV1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse (Predicted Reactivity: Bovine, Chicken, Zebrafish, Rat, Xenopus)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This UBE2V1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-145 amino acids from the C-terminal region of human UBE2V1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	UBE2V1 peptide (MBS9231196) is used for blocking the activity of UBE2V1 antibody (MBS9214794)
Molecular Weight	16495
Immunogen Sequence Positions	113-145
OMIM	602995
3D Structure	ModBase 3D Structure for Q13404
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-UBE2V1 antibody	Cell Biology; Immunology; Signal Transduction
Applications Tested/Suitable for anti-UBE2V1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-UBE2V1 antibody	WB~~1:1000

Related Product Information for anti-UBE2V1 antibody	The CROC1 isoforms, also known as UBE2V1, show sequence similarity to ubiquitin-conjugating enzymes (UBCs, or E2s) but lack the conserved cysteine residue critical to catalytic activity of E2s.1 Northern blot analysis detected approximately 2.1- and 2.5-kb CROC1 transcripts in all human tissues examined, with the highest levels in brain, skeletal muscle, and kidney. Partial human intestinal epithelial cell cDNAs have been isolated containing the 3-primecoding sequence and 3-prime untranslated region of UBE2V1, also called UEV1.2 UEV1 does not have ubiquitin-conjugating activity in vitro. UEV1 transcripts are downregulated upon differentiation of a colon carcinoma cell line.1 Constitutive expression of exogenous UEV1 protein in these colon carcinoma cells inhibits their capacity to differentiate upon confluence and induces changes in cell cycle behavior associated with inhibition of CDK1. A heterodimeric protein complex has been identified that links TRAF6 to IKK activation.3 Peptide mass fingerprinting analysis revealed that this complex is composed of the ubiquitin conjugating enzyme UBC13 and the UBC-like protein UBE2V1, also called UEV1A. TRAF6, a RING domain protein, functions together with UBC13/UEV1A to catalyze the synthesis of unique polyubiquitin chains linked through lysine-63 (K63) of ubiquitin. Blockade of this polyubiquitin chain synthesis, but not inhibition of the proteasome, prevents the activation of IKK by TRAF6. These results unveil a new regulatory function for ubiquitin, in which IKK is activated through the assembly of K63-linked polyubiquitin chains.
Product References and Citations for anti-UBE2V1 antibody	Thomson, T.M., et al., Genome Res. 10(11):1743-1756 (2000). Long, M., Genome Res. 10(11):1655-1657 (2000). Deng, L., et al., Cell 103(2):351-361 (2000). Hofmann, R.M., et al., Cell 96(5):645-653 (1999). Ma, L., et al., Oncogene 17(10):1321-1326 (1998).
Other Notes	Small volumes of anti-UBE2V1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UBE2V1 purchase	MBS9214794 is an antibody targeting UBE2V1. Also known as UBE2V1 Antibody (C-term). Reactive in Human, mouse (Predicted Reactivity: Bovine, Chicken, Zebrafish, Rat, Xenopus). Host: Rabbit.



Western Blot (WB) of anti-UBE2V1 antibody
Western blot analysis of UBE2V1 Antibody (C-term) in mouse cerebellum tissue lysates (35ug/lane). UBE2V1 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-UBE2V1 antibody
Western blot analysis of UBE2V1 (arrow) using rabbit polyclonal UBE2V1 Antibody (M151). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE2V1 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2V1. It may not necessarily be applicable to this product.

NCBI GI #	73765546
NCBI GeneID	7335
NCBI Accession #	NP_001027459.1
NCBI Related Accession #	NP_001244322.1; NP_001244323.1; NP_001244325.1; NP_068823.2; NP_071887.1; NP_954595.1; NP_954673.1
UniProt Primary Accession #	Q13404
UniProt Secondary Accession #	Q13403; Q13532; Q5TGE0; Q5TGE3; Q96H34; Q9GZT0; Q9GZW1; Q9H4J3; Q9H4J4; Q9UKL1; E1P629
UniProt Related Accession #	Q13404

GenBank Nucleotide #	NM_001032288.2
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 variant 1 isoform d
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2 variant 1
NCBI Official Symbol	UBE2V1
NCBI Official Synonym Symbols	CIR1; UEV1; CROC1; UBE2V; UEV-1; UEV1A; CROC-1
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 variant 1
UniProt Synonym Protein Names	CROC-1; TRAF6-regulated IKK activator 1 beta Uev1A
UniProt Gene Name	UBE2V1
UniProt Synonym Gene Names	CROC1; UBE2V; UEV1; UEV-1
UniProt Entry Name	UB2V1_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 variant 1
NCBI Summary for UBE2V1	Ubiquitin-conjugating E2 enzyme variant proteins constitute a distinct subfamily within the E2 protein family. They have sequence similarity to other ubiquitin-conjugating enzymes but lack the conserved cysteine residue that is critical for the catalytic activity of E2s. The protein encoded by this gene is located in the nucleus and can cause transcriptional activation of the human FOS proto-oncogene. It is thought to be involved in the control of differentiation by altering cell cycle behavior. Alternatively spliced transcript variants encoding multiple isoforms have been described for this gene, and multiple pseudogenes of this gene have been identified. Co-transcription of this gene and the neighboring upstream gene generates a rare transcript (Kua-UEV), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Apr 2012]
UniProt Comments for UBE2V1	UBE2V1: Has no ubiquitin ligase activity on its own. The UBE2V1- UBE2N heterodimer catalyzes the synthesis of non-canonical poly- ubiquitin chains that are linked through Lys-63. This type of poly-ubiquitination activates IKK and does not seem to involve protein degradation by the proteasome. Plays a role in the activation of NF-kappa-B mediated by IL1B, TNF, TRAF6 and TRAF2. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation. Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Belongs to the ubiquitin-conjugating enzyme family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 20q13.2 Cellular Component: protein complex; ubiquitin conjugating enzyme complex; cytoplasm; cytosol; nucleus; ubiquitin ligase complex Molecular Function: protein binding; small conjugating protein ligase activity; ubiquitin conjugating enzyme binding; ubiquitin protein ligase binding Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; protein polyubiquitination; error-free postreplication DNA repair; postreplication repair; positive regulation of transcription, DNA-dependent; T cell receptor signaling pathway; toll-like receptor 2 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; regulation of DNA repair; regulation of transcription, DNA-dependent; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; cell differentiation; toll-like receptor 4 signaling pathway
Research Articles on UBE2V1	**1.** Ubiquitin-conjugating enzyme complex Uev1A-Ubc13 promotes breast cancer metastasis through nuclear factor-small ka, CyrillicB mediated matrix metalloproteinase-1 gene regulation.
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