10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

UBE2A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant UBE2A.
Catalog # AT4427a

Product Information

Application	WB
Primary Accession	P49459
Other Accession	BC010175
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3D7-E2
Calculated MW	17315

Additional Information

Gene ID	7319
Other Names	Ubiquitin-conjugating enzyme E2 A, RAD6 homolog A, HR6A, hHR6A, Ubiquitin carrier protein A, Ubiquitin-protein ligase A, UBE2A, RAD6A
Target/Specificity	UBE2A (AAH10175, 1 a.a. ~ 152 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	UBE2A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

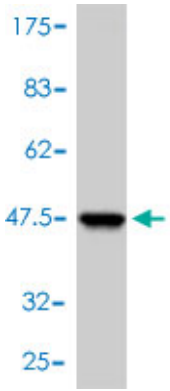
Background

The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for post-replicative DNA damage repair. Multiple alternatively spliced transcript variants have been found for this gene and they encode distinct isoforms.

References

UBE2A, which encodes a ubiquitin-conjugating enzyme, is mutated in a novel X-linked mental retardation syndrome. Nascimento RM, et al. Am J Hum Genet, 2006 Sep. PMID 16909393.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.ZNF198 protein, involved in rearrangement in myeloproliferative disease, forms complexes with the DNA repair-associated HHR6A/6B and RAD18 proteins. Kunapuli P, et al. Oncogene, 2003 May 29. PMID 12776193.Supramolecular complex formation between Rad6 and proteins of the p53 pathway during DNA damage-induced response. Lyakhovich A, et al. Mol Cell Biol, 2003 Apr. PMID 12640129.RFPL4 interacts with oocyte proteins of the ubiquitin-proteasome degradation pathway. Suzumori N, et al. Proc Natl Acad Sci U S A, 2003 Jan 21. PMID 12525704.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (42.46 KDa) .