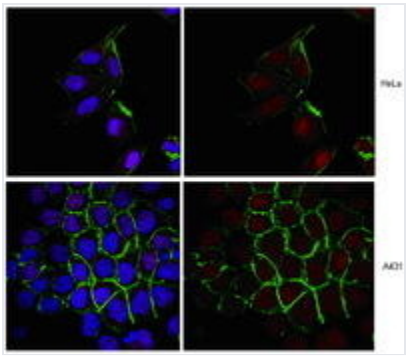
UBE2E3 Antibody – Mouse Monoclonal

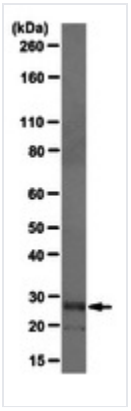
PRODUCT OVERVIEW

Product Name	UBCH9 (UBE2E3), Monoclonal Antibody
Full Product Name	UBCH9 (Ubiquitin-conjugating Enzyme E2 E3, Ubiquitin-protein Ligase E3, Ubiquitin Carrier Protein E3, Ubiquitin-conjugating Enzyme E2-23kD, UbcH9, UBE2E3, UBCE4)
Product Gene Name	anti-UBE2E3 antibody
Product Synonym Names	Anti -UBCH9 (Ubiquitin-conjugating Enzyme E2 E3, Ubiquitin-protein Ligase E3, Ubiquitin Carrier Protein E3, Ubiquitin-conjugating Enzyme E2-23kD, UbcH9, UBE2E3, UBCE4)
Clonality	Monoclonal
Isotype	IgG2bk
Clone Number	13A225
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in 0.1M Tris-glycine, pH 7.4, 150mM sodium chloride, 0.05% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein G affinity chromatography.
Specificity	Recognizes human Ubch9. Species Crossreactivity: Mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	22,913 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (181845112..181928154). Location: 2q32.1
OMIM	604151
3D Structure	ModBase 3D Structure for Q969T4
Immunogen	Recombinant corresponding to human Ubch9 fused to GST-tag.
Positive Control	NIH/3T3 cell lysate
Product Categories/Family for anti-UBE2E3 antibody	Antibodies; Abs to Ubiquitin Ligases
Applications Tested/Suitable for anti-UBE2E3 antibody	Western Blot (WB), Immunocytochemistry (ICC)
Application Notes for anti-UBE2E3 antibody	Suitable for use in Western Blot and Immunocytochemistry. Dilution: Western Blot: 0.5ug/ml Immunocytochemistry: 1ug/ml
Related Product Information for anti-UBE2E3 antibody	SUMO conjugation to target proteins is mediated by a different, but analogous, pathway to ubiquitinylation. UbcH9 is a SUMO conjugating enzyme that mediates the conjugation of SUMO-1 to a number of proteins including RanGAP1, IkBa and PML. It is known to interact directly with proteins that are modified by SUMOylation and may be important for substrate recognition. It appears that conjugation of SUMO-1 to IkBb prevents subsequent ubiquitinylation and thus protects it from proteasomal degradation. Thus, while ubiquitinylation targets proteins for rapid degradation, SUMO-1 modification acts antagonistically to generate proteins resistant to degradation.

Other Notes	Small volumes of anti-UBE2E3 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 UBE2E3 purchase	MBS647628 is an antibody targeting UBE2E3. Also known as UBCH9 (Ubiquitin-conjugating Enzyme E2 E3, Ubiquitin-protein Ligase E3, Ubiquitin Carrier Protein E3, Ubiquitin-conjugating Enzyme E2-23kD, UbcH9, UBE2E3, UBCE4). Reactive in Human, Mouse. Host: Mouse.



Immunocytochemistry (ICC) of anti-UBE2E3 antibody
Immunocytochemistry Analysis: |Representative lot data. |Confocal fluorescent analysis of A431 and HeLa cells using Ubch9 (Red). Actin filaments have been labeled with Alexa Fluor® 488 dye- Phalloidin (Green). Nucleus is stained with DAPI (Blue). This antibody positively stains the nucleus and cytoplasm.



Western Blot (WB) of anti-UBE2E3 antibody
Western Blotting Analysis: |Representative lot data. |NIH/3T3 cell lysate was probed with Ubch9 (0.5ug/ml). Proteins were visualized using a Goat Mouse IgG secondary antibody conjugated to HRP and a chemiluminescence detection system.|Arrow indicates Ubch9 (~23kD). An uncharacterized band at a molecular weight of ~19kD may be observed in some cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2E3. It may not necessarily be applicable to this product.

NCBI GI #	514052667
NCBI GeneID	10477
NCBI Accession #	NP_001265484.1
UniProt Primary Accession #	Q969T4
UniProt Secondary Accession #	Q5U0R7; Q7Z4W4; B2RAD6; D3DPG3
UniProt Related Accession #	Q969T4
GenBank Nucleotide #	NM_001278555.1
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 E3
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2E 3
NCBI Official Symbol	UBE2E3
NCBI Official Synonym Symbols	UBCH9; UbcM2
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 E3
UniProt Synonym Protein Names	UbcH9; Ubiquitin carrier protein E3; Ubiquitin-conjugating enzyme E2-23 kDa; Ubiquitin-protein ligase E3
Protein Family	Ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2E3
UniProt Synonym Gene Names	UBCE4; UBCH9
UniProt Entry Name	UB2E3_HUMAN

NCBI Protein Information	ubiquitin-conjugating enzyme E2 E3; ubiquitin-protein ligase E3; ubiquitin carrier protein E3; ubiquitin-conjugating enzyme E2-23 kDa; ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5)
NCBI Summary for UBE2E3	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. The encoded protein shares 100% sequence identity with the mouse and rat counterparts, which indicates that this enzyme is highly conserved in eukaryotes. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2013]
UniProt Comments for UBE2E3	Function: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-11'- and 'Lys-48'-, as well as 'Lys-63'-linked polyubiquitination. Participates in the regulation of transepithelial sodium transport in renal cells. May be involved in cell growth arrest. Ref.1 Ref.11 Catalytic activity: ATP + ubiquitin + protein lysine = AMP + diphosphate + protein N-ubiquityllysine. Pathway: Protein modification; protein ubiquitination. Subunit structure: The ubiquitin-loaded form interacts specifically with importin-11 (IPO11), leading to its import into the nucleus By similarity. Interacts with NEDD4L. Subcellular location: Nucleus. Cytoplasm. Note: Shuttles between the nucleus and cytoplasm in a IPO11-dependent manner. Ref.9 Tissue specificity: Ubiquitously expressed at low levels. Highly expressed in skeletal muscle. Ref.1 Sequence similarities: Belongs to the ubiquitin-conjugating enzyme family.
Research Articles on UBE2E3	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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