

Rabbit anti-Human MAGEA3 Antibody | anti-MAGEA3 antibody

Anti-MAGEA3 [21B4], Rabbit IgG

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72291	Rabbit	Human	Immunohistochemistry, Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay, ELISA

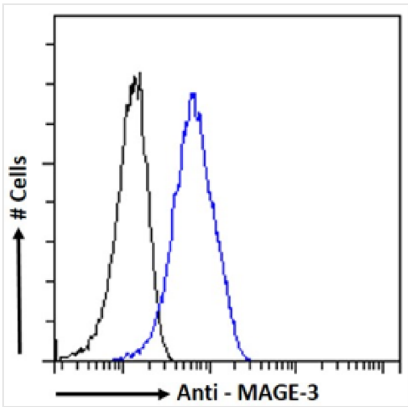
PRODUCT SYNONYMS

MAGEA3; Anti-MAGEA3 [21B4]; Rabbit IgG; MAGE-3; MAGE3; MAGE 3; CT1.3; MAGE-3 antigen; Melanoma-associated antigen 3; Antigen MZ2-D; Cancer/testis antigen 1.3; MAGEA6; MAGE6; Melanoma-associated antigen 6; Cancer/testis antigen 1.6; CT1.6; MAGE-6 antigen; MAGE3B antigen; anti-MAGEA3 antibody

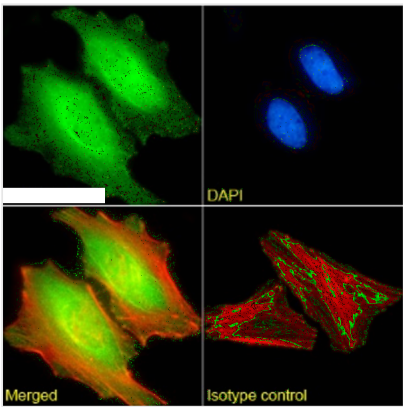
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Isotype	Rabbit IgG, Kappa
Clone Number	21B4
Specificity	This antibody binds human MAGEA3 and MAGEA6, but does not cross react with other members of the MAGE family like MAGE-A1, MAGE-A4 and MAGE-A10. MAGE-A3 is a tumor specific antigen and it is expressed on many tumors like melanoma, non-small cell lung cancer, hematologic malignancies, and others.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MAGEA3 antibody	IHC (Immunohistochemistry), WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), ELISA
Immunogen	The original antibody was isolated from a patient suffering from a tumor expressing a tumor specific antigen like MAGE-A3.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

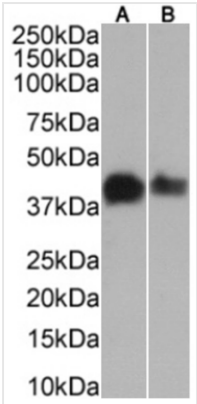
IMAGES



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-MAGE-3 antibody 21B4 (AAA72291). HeLa cells were stained with an isotype control or the rabbit-chimeric version of 21B4 (AAA72291-23.0, blue line) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using Alexa Fluor 488 conjugated goat anti-rabbit IgG and cells analysed on a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of HeLa cells with anti-MAGE-3 (AAA72291) 21B4. Immunofluorescence analysis of paraformaldehyde fixed HeLa cells stained with the chimeric rabbit IgG version of 21B4 (AAA72291-23.0) (1:1000 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1500 dilution), showing nuclear staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72291-23.0, DAPI, merged channels and an isotype control. The isotype control was anti-fluorescein antibody followed by staining with Alexa Fluor 488 secondary antibody.



WB (Western Blot)
Western Blot using anti-MAGE-3 antibody 21B4 (AAA72291). HeLa(A) (0.01ug/ml) cells lysate and HeLa(B) (0.01ug/ml) cells nuclear lysate (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of 21B4 (AAA72291-23.0) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-MAGEA3 antibody	The binding specificity of this antibody towards MAGE-A3 was determined using ELISA. The original antibody cross reacts with MAGEA6 but does not react with other members of the MAGE family in an ELISA or western blot assay. This antibody was used in the detection of HEK293T cells expressing MAGEA3 and MAGEA6 using flow cytometry. The original IgG1 antibody was capable of immunoprecipitating MAGE-A3 from lysates of SK-MEL-37 cells endogenously expressing MAGEA3. The original antibody was also used in the immunohistochemical staining of tissues from normal testis and squamous cell carcinoma of the lung (US20140093514).
Product Categories/Family for anti-MAGEA3 antibody	tumor marker; cell surface antigen; cancer; oncology; tumor
References	Esslinger et al. Magea3 binding antibodies. (US20140093514) PMID:

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885467
NCBI GeneID	4102

NCBI Accession #	NP_005353.1
NCBI GenBank Nucleotide #	NM_005362.3
UniProt Accession #	P43357 ; P43360
NCBI Official Full Name	melanoma-associated antigen 3
NCBI Official Synonym Full Names	melanoma antigen family A3
NCBI Official Symbol	MAGEA3
NCBI Official Synonym Symbols	HIP8; HYPD; CT1.3; MAGE3; MAGEA6
NCBI Protein Information	melanoma-associated antigen 3; MAGE-3 antigen; antigen MZ2-D; cancer/testis antigen 1.3; cancer/testis antigen family 1, member 3; melanoma antigen family A, 3
UniProt Protein Name	Melanoma-associated antigen 3
UniProt Gene Name	MAGEA3
UniProt Synonym Gene Names	MAGE3; CT1.3
UniProt Entry Name	MAGA3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-antibody/magea3/72291>