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

MAGEA4 Antibody
Catalog # ASC11929

Specification

MAGEA4 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	P43358
Other Accession	NP_001011550, 4103
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 35 kDa; Observed: 45 kDa KDa**
Application Notes	**MAGEA4 antibody can be used for detection of MAGEA4 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

MAGEA4 Antibody - Additional Information

Gene ID **4103**

Target/Specificity
MAGEA4 antibody was raised against a 16 amino acid peptide near the amino terminus of human MAGEA4.

The immunogen is located within the first 50 amino acids of MAGEA4.

Reconstitution & Storage
MAGEA4 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
MAGEA4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MAGEA4 Antibody - Protein Information

Name MAGEA4

Synonyms MAGE4

Function
Regulates cell proliferation through the inhibition of cell cycle arrest at the G1 phase (PubMed:22842486). Also negatively regulates p53-mediated apoptosis (PubMed:22842486).

Tissue Location
Expressed in many tumors of several types, such as melanoma, head and neck squamous cell carcinoma, lung carcinoma and breast carcinoma, but not in normal tissues except for testes and

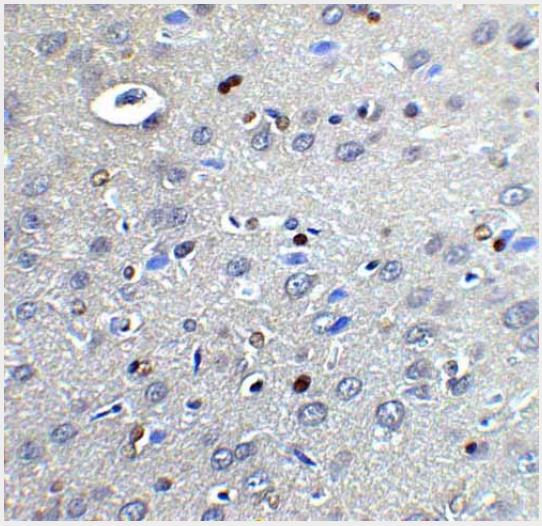
placenta

MAGEA4 Antibody - Protocols

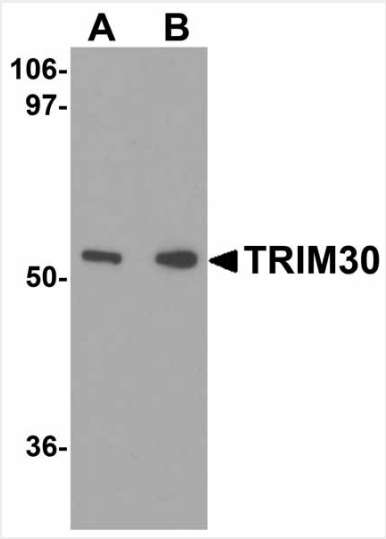
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAGEA4 Antibody - Images



Immunohistochemistry of NOX2 in rat brain tissue cells with NOX2 antibody at 2 µg/ml.



Western blot analysis of TRIM30 in mouse heart tissue lysate with TRIM30 antibody at (A) 1 and

(B) 2 µg/mL.

MAGEA4 Antibody - Background

MAGEA4 is a member of the melanoma-associated antigen family that consists of a number of antigens recognized by cytotoxic T lymphocytes (1). MAGEA4 may serve as a target for antitumoral vaccination and may play a role in embryonal development and tumor transformation or aspects of tumor progression. It is expressed in many tumors of several types, such as melanoma, head and neck squamous cell carcinoma, lung carcinoma and breast carcinoma and have been implicated in some hereditary disorders, such as dyskeratosis congenital (2-4).

MAGEA4 Antibody - References

Bhan S, Negi SS, Shao C, et al. BORIS binding to the promoters of cancer testis antigens, MAGEA2, MAGEA3, and MAGEA4, is associated with their transcriptional activation in lung cancer. Clin. Cancer Res. 2011; 17:4267-76.
Bhan S, Chuang A, Negi SS, et al. MAGEA4 induces growth in normal oral keratinocytes by inhibiting growth arrest and apoptosis. Oncol. Rep. 2012; 28:1498-502.
Saito T, Wada H, Yamasaki M, et al. High expression of MAGE-A4 and MHC class I antigens in tumor cells and induction of MAGE-A4 immune responses are prognostic markers of CHP-MAGE-A4 cancer vaccine. Vaccine, epub. 2014; S0264-410X(14)01217-1.
Zhang QM, He SJ, Shen N, et al. Overexpression of MAGE-D4 in colorectal cancer is a potentially prognostic biomarker and immunotherapy target. Int. J. Clin. Exp. Pathol. 2014; 7:3918-27.