

Monoclonal antibody against human Tumor associated antigen L6 Product No. ADG0015

Description

Tumor associated antigen L6 (TM4SF1) is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility ^(2, 3). This encoded protein is a cell surface antigen and is highly expressed in different carcinomas ⁽⁴⁻⁶⁾.

Aliases: transmembrane 4 L six family member 1, transmembrane 4 superfamily member 1, transmembrane 4 L6 family member 1, surface marker 1

Preparation

The monoclonal antibody ADG0015 (clone HD-pKe 104 1.1) is a murine monoclonal antibody, subclass IgG₁ recognizing the human Tumor associated antigen L6. Mice were immunized with recombinant tumor antigen L6. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4 + 0.01% ProClin300. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

Applications ⁽¹⁾

- Western-Blot
- Immunopurification
- Immunocytology

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Warnings and Precautions

Contains: Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin ® 300)

Hazard pictograms



Warning

Signal word

Hazard statements

H317 - May cause an allergic skin reaction.

Precautionary statements

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

References

1. Molecular and functional characterization of the four-transmembrane molecule L6 in epidermal keratinocytes. Storim J et al., *Exp Cell Res.* 2001 Jul 15;267(2):233-42.
2. TM4SF1: a tetraspanin-like protein necessary for nanopodia formation and endothelial cell migration. Zukauskas A et al., *Angiogenesis.* 2011 Sep;14(3):345-54.2.
3. The L6 protein TM4SF1 is critical for endothelial cell function and tumor angiogenesis. Shih SC et al., *Cancer Res.* 2009 Apr 15;69(8):3272-7.
4. TM4SF1, a novel primary androgen receptor target gene over-expressed in human prostate cancer and involved in cell migration. Allioi N et al., *Prostate.* 2011 Aug 1;71(11):1239-50.
5. The tumour-associated antigen L6 (L6-Ag) is recruited to the tetraspanin-enriched micro-domains: implication for tumour cell motility. Lekishvili T et al., *J Cell Sci.* 2008 Mar 1;121(Pt 5):685-94.
6. Tumor-associated antigen L6 and the invasion of human lung cancer cells. Kao YR et al., *Clin Cancer Res.* 2003 Jul;9(7):2807-16.

For research use only!

Hinweis/Note:

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The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.