

## Monoclonal antibody against human VAT1 Product No. ADG0011

### Description

Human Vesicle amine transport protein 1 homolog (VAT-1) is a homologue of the synaptic vesicle membrane protein of *Torpedo californica*. Its coding gene is located near the BRCA1 locus and thus hVAT-1 may be linked to an inherited predisposition to breast and ovary cancer.

VAT-1-expression was observed in basal keratinocytes of lesional epidermis of bullous pemphigoid patients but not in normal epidermis or in lesional epidermis of pemphigus vulgaris patients. Moreover, hVAT-1 expression in HaCaT cells was found to be calcium-dependent. Normal and malignant mammary and ovary epithelium were found to be hVAT-1-negative.

VAT-1 exerts a specific function in keratinocyte physiology, in particular in calcium-regulated processes, with no evident deregulation in malignancies of the breast and ovary.

### Preparation

The monoclonal antibody ADG0011 (clone HD-pKe 169 3.1) is a murine monoclonal antibody, subclass IgG<sub>1</sub> recognizing the human VAT1 protein. Mice were immunized with recombinant VAT1. 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

- Western-Blot
- Immunohistology
- Immunocytology

### 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.

### Reference

Human VAT-1: a calcium-regulated activation marker of human epithelial cells. Koch J et al., Arch Dermatol Res (2003) 295: 203–210.

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