abcam

Product datasheet

Anti-MVP antibody [LRP-56] ab3367

Overview

Product name	Anti-MVP antibody [LRP-56]
Description	Mouse monoclonal [LRP-56] to MVP
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC, IHC-Fr, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	2R120 cell line derived by stepwise Doxorubicin exposure of the the SW-1573 non-small cell lung carcinoma cell line.
Positive control	Lung, Colon, kidney, bronchus or adrenal cortex (human tissue). Also in MDR cell lines such as GLC4/ADR, HT1080/DR4 & 2R120. Negative control antibody: Normal mouse serum

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 1% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	LRP-56
Isotype	IgG2b

Applications

Our Abpromise guarantee covers the use of **ab3367** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		
ICC		

Application	Abreviews	Notes
IHC-Fr		
IHC-P		

Application notes

Flow Cyt: Use at an assay dependent dilution.
ICC: Use at an assay dependent dilution.
IHC-Fr: Frozen tissues, cell lines, formalin-fixed/paraffin embedded tissues. 1/10 - 1/40. Pretreatment is not required. For optimal staining, the primary antibody should be incubated overnight at 4°C.
IHC-P: 1/20.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Required for normal vault structure. Vaults are multi-subunit structures that may act as scaffolds for proteins involved in signal transduction. Vaults may also play a role in nucleo-cytoplasmic transport. Down-regulates INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.

Tissue specificity

Present in most normal tissues. Higher expression observed in epithelial cells with secretory and excretory functions, as well as in cells chronically exposed to xenobiotics, such as bronchial cells and cells lining the intestine. Overexpressed in many multidrug-resistant cancer cells.

Sequence similarities

Contains 9 MVP (vault) repeats.

Domain

MVP 3 mediates interaction with PTEN.
MVP 4 mediates interaction with PARP4.

Post-translational modifications

Phosphorylated on Tyr residues after EGF stimulation.
Dephosphorylated by PTPN11.

Cellular localization

Cytoplasm. Nucleus > nuclear pore complex. 5% found in the nuclear pore complex. Translocates from the nucleus to the cytoplasm upon EGF treatment.

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