

PRODUCT INFORMATION SHEET

Mouse monoclonal Antibody to EpCAM

PURE RUO REF IQP-330P QTY 1.0 ml

RUO **For Research Use Only**



Description

Clone MOC-31

Isotype Mouse IgG1

Specificity EpCAM

Alternative names ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; TACSTD1

Species Human

Summary This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. Tissue specificity: This protein is expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinomas.

Applications Immunohistochemistry (IHC). Not yet tested in other applications.

Limitations

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.



Handling and Storage

Store the vials at 2-8°C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Antibodies are supplied as 50 µg/ml in 1 ml per vial. They are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.2% BSA, 0.09% sodiumazide (NaN₃).

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization













To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.

Warning All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

1. Int J Oncol. 2007 Jan;30(1):171-9.
 2. Int J Cancer. 2008 Jul 15;123(2):484-9.
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Explanation of used symbols

| | |
|---|--|
|  | Consult instructions for use |
|  | Catalogue number |
|  | Sufficient for |
|  | Quantity |
|  | Caution, consult accompanying document |
|  | Keep away from (sun)light |
|  | Biological risks |
|  | Temperature limitation (°C) |
|  | For Research Use Only |
|  | Batch code |
|  | Use by yyyy-mm-dd |
|  | Manufacturer |

| Conjugates | | | Ex -max (nm) | Em (nm) | -max |
|------------|-------------|-------------------------------------|--------------------|---------|------|
| P | PURE | Unconjugated antibody | - | - | |
| F | FITC | Fluorescein Isothiocyanate | 488 | 519 | |
| R | R-PE | R-Phycoerythrin | 488, 532 | 578 | |
| C | CyQ | Tandem conjugate of R-PE-and Cy5.18 | 488, 532 | 667 | |
| A | APC | Allophycocyanin | 595, 633, 635, 647 | 660 | |
| D | Dy-410 | Violet Dye 410 | 405 | 460 | |
| PC | PerCP | Peridinin-chlorophyll-protein | 488, 532 | 678 | |
| PCC | PerCP-Cy5.5 | Tandem conjugate of PerCP-and Cy5.5 | 488, 532 | 695 | |

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