

## Anti-Human EpCAM Mouse Monoclonal Antibody

Clone: UMAB131 **REF** RU00016

### Intended use

Anti- human EPCAM Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

EpCAM is 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.

Alternative names: EpCAM/ epithelial cell adhesion molecule, CD326, MOC31, TACSTD1 protein

### Reagent provided

Anti- human EPCAM Mouse Monoclonal Antibody (Clone: UMAB131) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The total protein concentration is 0.1 +/- 0.05 mg/mL.

For Immunohistochemistry the antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissues, and this can be dependent upon the detection system used. These are guidelines only, and the optimal dilutions should be determined by the individual laboratory.

### Immunogen

Full length human recombinant protein of human EPCAM(NP\_002345) was produced in HEK293T cell.

### Specificity

The specificity of the anti- human EpCAM Mouse Monoclonal Antibody was established on known positive human colon cancer and negative normal human lung and tonsil tissue. The anti-EpCAM presented no staining on formalin fixed negative lung and tonsil tissue and positive staining on formalin fixed positive human colon cancer tissue using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide (NaN<sub>3</sub>), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN<sub>3</sub> may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

### Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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