

## Anti- human MART1 Mouse Monoclonal Antibody

Clone: 3E2    **REF** RU00062

**CATALOG NUMBER:** R00062MA01-MA, 0.1mL; R00062MA05-MA, 0.5 mL; R00062MA10-MA, 1.0 mL

### Intended use

Anti-human MART1 (Clone: 3E2) Mouse Monoclonal Primary Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

MART1 is short for melanoma antigen recognized by T cell 1 and, as its name suggested, found on normal melanocytes in the skin and in the retina. The clinical significance comes from its association with melanoma. Besides being used as a biomarker for melanoma, MART1 was found to elicit cytolytic T cell response in HLA-A2 melanoma patients. Therapies for melanoma of different stages, including vaccines, are being investigated.

Alternative names: MLANA; melan-A; MART-1

### Reagent provided

Anti-human MART 1 Mouse Monoclonal Primary Antibody (Clone: 3E2) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1,k. The protein concentration is approximately 0.4 +/- 0.05 mg/mL.

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

### Immunogen

Full length human recombinant protein of MLANA (NP\_005502) was produced in HEK293T cell.

### Specificity

The specificity of the Anti-human MART1 Mouse Monoclonal Primary Antibody was established on known human melanoma metastases. The anti-human MART1 presented no staining on the human normal muscle, and positive staining on human melanoma metastases using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  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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