

## Anti-Human S100P Mouse Monoclonal Antibody

Clone: UMAB24 **REF** RU00032

### Intended use

Anti-human S100P (Clone: UMAB24) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

S100P is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 proteins show variable cell-type-specific expression pattern. This protein was isolated from human placenta and given the designation "P".

Alternative names: S100 calcium-binding protein P, MIG9

### Reagent provided

Anti-human S100P Mouse Monoclonal Antibody (Clone: UMAB24) 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. The protein concentration is approximately 0.4 +/- 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 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 recombinant protein of human S100P (NP\_005971) was produced in HEK293T cells.

### Specificity

The specificity of the anti-human S100P Mouse Monoclonal Antibody was established on human colon cancer, normal human lung, liver and placenta tissues. The anti- S100P presented no staining on normal human liver and lung, and positive staining on human colon cancer and placenta 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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