

## Anti-Human Ki-67 Mouse Monoclonal Antibody

Clone: UMAB107 REF RU00002

### Intended use

Anti-human Ki-67 (Clone: UMAB107) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

Ki-67 is a nuclear protein that is associated with and may be necessary for cellular proliferation. In cancer, the fraction of Ki-67 positive tumor cells is often correlated with the pathology of the disease. Alternatively, spliced transcript variants have been described. A related pseudogene exists on chromosome X. [provided by RefSeq, Mar 2009]

Alternative names: MKI67

### Reagent provided

Anti-human Ki-67 (Clone: UMAB107) Mouse Monoclonal Antibody 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 IgG2a. The protein concentration is 0.2 +/- 0.05 mg/mL.

For immunohistochemistry (IHC), the antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue. For IHC, the mouse anti-human Ki-67 (Clone: UMAB107) requires antigen retrieval, and the staining sensitivity is dependent upon the detection system used. These are guidelines only and optimal dilutions should be determined by the individual laboratory.

### Immunogen

Human recombinant protein fragment corresponding to amino acids 1160-1493 of human Ki-67 (NP\_002408) was produced in *E.coli*.

### Specificity

The specificity of the anti- human Ki-67 Mouse Monoclonal Primary Antibody was established on known positive tonsil and negative lung tissue. The anti-Ki-67 presented no staining on formalin fixed Ki-67 negative lung tissue and positive staining on formalin fixed tonsil 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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