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#9449

Ki-67 (8D5) Mouse mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P46013	Entrez-Gene Id: 4288
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Product Usage Information

Application

Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:800 - 1:3200
1:1600 - 1:6400
1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier-free (BSA and azide free) version of this product see product #62548.

Specificity/Sensitivity

Ki-67 (8D5) Mouse mAb recognizes endogenous levels of total Ki-67 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Ki-67 protein.

Background

Ki-67, named after the location where it was discovered (Kiel University, Germany), is a nuclear nonhistone protein (1) that is universally expressed among proliferating cells and absent in quiescent cells (2). Ki-67 detects proliferating cells in G1, S, G2, and mitosis, but not in the G0 resting phase. Research studies have shown that high levels of Ki-67 are associated with poorer breast cancer survival (3). Research studies have explored the use of Ki-67, along with other markers, as potential prognostic or predictive markers in breast cancer and other malignant diseases (4).

Background References

1. Gerdes, J. et al. (1983) *Int J Cancer* 31, 13-20.
2. Weigel, M.T. and Dowsett, M. (2010) *Endocr Relat Cancer* 17, R245-62.
3. Jones, R.L. et al. (2009) *Breast Cancer Res Treat* 116, 53-68.
4. Yerushalmi, R. et al. (2010) *Lancet Oncol* 11, 174-83.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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