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#9027

Ki-67 (D2H10) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P	H Mk	Endogenous	Rabbit IgG	#P46013	4288

Product Usage Information

Application

Immunohistochemistry (Paraffin)

Dilution

1:200 - 1:800

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 #44092.

Specificity/Sensitivity

Ki-67 (D2H10) Rabbit mAb recognizes endogenous levels of total Ki-67 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to 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

- Gerdes, J. et al. (1983) *Int J Cancer* 31, 13-20.
- Weigel, M.T. and Dowsett, M. (2010) *Endocr Relat Cancer* 17, R245-62.
- Jones, R.L. et al. (2009) *Breast Cancer Res Treat* 116, 53-68.
- 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)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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