

#11882 Store at +4°C

Ki-67 (D3B5) Rabbit mAb (Alexa Fluor® 488 Conjugate)**Cell Signaling**
TECHNOLOGY®**Orders:** 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.**Applications:**
IHC-P, IF-F, IF-IC, FC-FP**Reactivity:**
H M R**Sensitivity:**
Endogenous**Source/Isotype:**
Rabbit IgG**UniProt ID:**
#P46013**Entrez-Gene Id:**
4288**Product Usage Information****Application**Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)**Dilution**1:100 - 1:400
1:100 - 1:200
1:100 - 1:200
1:50**Storage**

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity / Sensitivity

Ki-67 (D3B5) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Ki-67 protein by Flow Cytometry. It lacks sensitivity in low-expressing cells by immunofluorescence but may be used to detect moderate-to-high levels of Ki-67 in cultured cells and frozen tissues.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human Ki-67 protein.

Product Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ki-67 (D3B5) Rabbit mAb #9129. Species reactivity for IHC-P is human only.

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) **IF-F:** Immunofluorescence (Frozen)
IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)**Cross-Reactivity Key****H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected**Trademarks and Patents**Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
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