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). The use of Ki-67, along with other markers, has been explored as a prognostic or predictive marker in breast cancer and other malignant diseases (4).

**Background:**

Ki-67 (D2H10) Rabbit mAb (IHC Specific) 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.

**Recommended Antibody Dilutions:**

Immunohistochemistry (Paraffin) 1:400†

Unmasking buffer: Citrate

Antibody diluent: SignalStain® Antibody Diluent #8112

Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114

†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

**For product specific protocols please see the web page for this product at www.cellsignal.com.**

**Background References:**


