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Product datasheet for DRM004

Ki67 (MKI67) (C-term) Rabbit Monoclonal Antibody [Clone ID: SP6]

Product data:

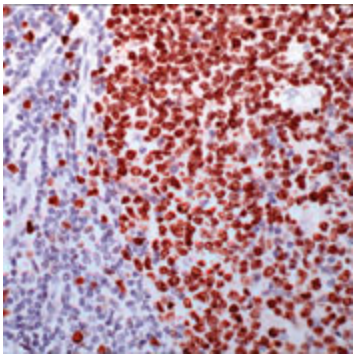
Product Type:	Primary Antibodies
Clone Name:	SP6
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on Paraffin Sections:** Use Ki67 antibody at a 1/50-1/100 dilution in an ABC method for 30 minutes at RT. ***Pretreatment:*** EDTA Buffer pH8.0 ***Recommended Positive Control:*** Tonsil. Also suitable for Western blot.
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide from C-terminus of Human Ki-67.
Specificity:	Reacts with Ki-67. ***Cellular Localization:*** Nuclear.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant Preservative: ≤ 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	marker of proliferation Ki-67
Database Link:	Entrez Gene 4288 Human P46013

View online »

Background: Ki-67 antigen is expressed in proliferating cells but not in quiescent cells. Expression of this antigen occurs preferentially during late G1, S, G2, and M phases of the cell cycle, while in cells in G0 phase the antigen cannot be detected. Consequently, Ki-67 antigen expression is used in tumor pathology to detect proliferating cells in neoplastic diseases. In cultured cells, Ki-67 is expressed in the nucleolus of interphase cells. The Ki-67 gene contains 15 exons. The Ki-67 repeat region, within which there is a 22-amino acid Ki-67 motif, is encoded by exon 13. The shorter isoform lacks exon 7. Northern blot analysis re-vealed multiple transcripts ranging from approximately 8.9 to 12.5 kb in proliferating but not quies-cent cells. Immunoblot analysis showed expression of 320- and 359-kD proteins. Sequence analy-sis predicted that the short-lived 2,896- and 3,256-amino acid protein isoforms contain potential nuclear targeting signals, over 200 potential phosphorylation sites, 19 N-myristoylation sites, 3 amidation sites, and numerous PEST sites. Antisense oligonucleotides inhibited cellular prolifera-tion in a dose-dependent manner, suggesting that Ki-67 protein expression may be an absolute requirement for cell proliferation.

Synonyms: Ki67 antigen, MKI67, Proliferation marker

Product images:



Formalin-fixed, paraffin-embedded human tonsil stained with Ki-67 antibody (Cat.-No DRM004) using peroxidase-conjugate and AEC. Note nuclear staining of proliferating cells.