

## Mouse anti-Human Ki-67 Monoclonal Antibody | anti-Ki-67 antibody

Ki-67 antibody

|                               |                      |                            |                                             |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA290966</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

Ki-67; Monoclonal Antibody; Ki-67 antibody; Purified Mouse Monoclonal Antibody (Mab); Proliferation marker protein Ki-67; Antigen identified by monoclonal antibody Ki-67; Antigen KI-67; Antigen Ki67; MKI67 ([HGNC:7107](#)); anti-Ki-67 antibody

### PRODUCT SPECIFICATIONS

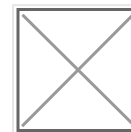
|                                                 |                                                                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                               |
| Reactivity                                      | Human                                                                                                                                                               |
| Clonality                                       | Monoclonal                                                                                                                                                          |
| Isotype                                         | IgG1                                                                                                                                                                |
| Clone Number                                    | 2179CT8.1.2.1                                                                                                                                                       |
| Specificity                                     | This antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 1000-1213 amino acids from human.                                 |
| Form/Format                                     | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Applicable Applications for anti-Ki-67 antibody | IHC (Immunohistochemistry)                                                                                                                                          |
| Antigen Source                                  | Human                                                                                                                                                               |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.               |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of P46013 on paraffin-embedded Human tonsil tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Human tonsil section using Pink1 . AM8727b was diluted at 1:200 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of P46013 on paraffin-embedded Human tonsil tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of P46013 on paraffin-embedded Human tonsil tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

## ADDITIONAL INFORMATION

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|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Categories/Family for anti-Ki-67 antibody | Primary Antibodies; Cancer; Cell Biology; Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| References                                        | <p>Schlueter C.,et al.J. Cell Biol. 123:513-522(1993).Deloukas P.,et al.Nature 429:375-381(2004).Gerdes J.,et al.Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.Gerdes J.,et al.Int. J. Cancer 31:13-20(1983).Gerdes J.,et al.J. Immunol. 133:1710-1715(1984).</p> <p>Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly (PubMed: <a href="http://www.uniprot.org/citations/27362226">http://www.uniprot.org/citations/27362226</a>). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed: <a href="http://www.uniprot.org/citations/27362226">http://www.uniprot.org/citations/27362226</a>). Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility (PubMed: <a href="http://www.uniprot.org/citations/27362226">http://www.uniprot.org/citations/27362226</a>). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed: <a href="http://www.uniprot.org/citations/10878551">http://www.uniprot.org/citations/10878551</a>). Does not contribute to the internal structure of mitotic chromosomes (By similarity). May play a role in chromatin organization (PubMed: <a href="http://www.uniprot.org/citations/24867636">http://www.uniprot.org/citations/24867636</a>). It is however unclear whether it plays a direct role in chromatin organization or whether it is an indirect consequence of its function in maintaining mitotic chromosomes dispersed (Probable).</p> |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | <a href="#">225543215</a>                          |
| NCBI GeneID                      | <a href="#">4288</a>                               |
| NCBI Accession #                 | <a href="#">NP_001139438.1</a>                     |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001145966.1</a>                     |
| UniProt Accession #              | <a href="#">P46013</a> ; <a href="#">Q5VWH2</a>    |
| Molecular Weight                 | 358,694 Da                                         |
| NCBI Official Full Name          | antigen KI-67 isoform 2                            |
| NCBI Official Synonym Full Names | antigen identified by monoclonal antibody Ki-67    |
| NCBI Official Symbol             | MKI67                                              |
| NCBI Official Synonym Symbols    | KIA                                                |
| NCBI Protein Information         | antigen KI-67; proliferation-related Ki-67 antigen |
| UniProt Protein Name             | Antigen KI-67                                      |
| UniProt Gene Name                | <b>MKI67</b>                                       |
| UniProt Entry Name               | KI67_HUMAN                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

