



Anti - Ki-67

Rabbit clonal antibody

CAT#

CONCENTRATED READY TO USE (RTU)

DB 111-0.1 DB 111-RTU-7 (7 ml) (100 ul) DB 111-0.2 $(200 \mu I)$ DB 111-RTU-15 (15 ml) DB 111-0.5 (500 µl)

DB 111-1 (1 ml)

STORAGE AND APPLICATION

CONCENTRATED

READY TO USE (RTU) +4°C, Do not freeze! +4°C Storage:

Storage: Application: IHC-P, Application: IHC-P,

dilution 1:100 - 1:200 ready to use

PRODUCT INFORMATION

Clone:

20 mM Tris-HCl, pH 8.0 Buffer: Stabilizer: 20 ma/ml BSA Preservative: 0.05% NaN₃

Specificity: Human

24 months from the shipping date Expiration:

Immunogen: Peptide derived from internal region of human Ki-67. Antibody recognizes the epitope between Asp1101

Cellular localization: nucleus Positive control: tonsil tissue Protein accession number: P46013

IHC-P PROTOCOL - INSTRUCTION MANUAL

- Deparaffinize the section in 3 changes of xylene, 5 minutes each.
- Wash the section in 96%, 80% and 70% ethyl alcohol for 10 minutes each.
- 3. Rinse in distilled water
- Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide (H₂O₂) for 10 minutes.
- Wash in distilled water.
- For antigen retrieval: immerse the slide in Tris-EDTA buffer, pH 9.0, 0.05% Tween 20*, and incubate in water bath at 95°C for 30 or 60 minutes.
- Remove the staining to room temperature and let the slide to cool (in Tris-EDTA buffer, pH 9.0) for 15 minutes.
- Rinse in distilled water
- Wash in 0.05 M Tris-HCl, pH 7.6 buffer supplemented with 0.2% of Tween-20 (buffer A) for 5 minutes.
- 10. CONCENTRATED:

Incubate the section with primary antibody at the dilution 1:100 - 1:200 for 1 hour in the closed wet chamber

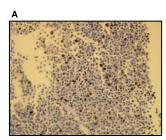
READY TO USE (RTU)

Incubate the section with primary antibody (ready to use) for 1 hour in a closed wet

- 11. Wash twice 5 minutes with buffer A.
- 12. Apply the secondary antibody (the protocol depends on the supplier), and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). Micropolymer-HRP detection kit rabbit/mouse dual of DB Biotech is suggested (http://www.dbbiotech.com/products/detection-system.html).
- Wash twice 5 minutes with buffer A.
- Apply the chromogen (DAB), 1 3 minutes.
- Wash in water 10 minutes.
- Stain in hematoxylin for 5 minutes.
- Wash in water 10 minutes.
- Dehydrate the section in 2 changes of 96% ethyl alcohol for 5 minutes each.
- Wash the section in 2 changes of xylene for 2 minutes each. 19.
- 20. Mount the slide for observation.

*Tris-EDTA Buffer (10mM Tris Base, 1mM EDTA solution, 0.05% Tween-20, pH 9.0):

-- 1.21 g; EDTA --------- 0.37 g; Distilled water ---- 1000 ml Mix to dissolve in 700 ml of distilled water. Adjust pH to 9.0 with 1M HCl and then add 0.5 ml of Tween-20 and mix well. Adjust the final volume to 1 liter with distilled water. Store this solution at room temperature for 3 months or at +4°C for longer storage

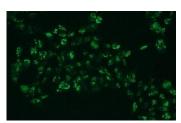




Proliferating cells of the plasma cell myeloma in the bone marrow biopsy (A) and B-cell lymphoma showing high proliferating index (B) visualised by the Ki-67 immunohistochemistry. Both, formalin fixed, paraffin embedded human tissues (4 μ m sections) stained with anti - Ki-67 (DB 111) monospecific clonal antibody according to related DB Biotech datasheet.

ICC PROTOKOL - INSTRUCTION MANUAL

- Coat coverslips with 1% gelatin-coating solution for 2 hours at room temperature (RT); rinse with distilled water, and let air-dry overnight. Before plating the cells, wash the coated coverslips briefly with PBS.
- Fix the cells with 4% paraformaldehyde solution (in PBS, pH 7.2), for 15 min at RT.
- Wash 2 x 3 min with PBS.
- Permeabilize the cells with 0.1% Triton X-100 solution (in PBS, pH 7.2) for 5 min on
- 5. Wash 2 x 3 min with PBS.
- Incubate the cells in blocking buffer (0.3M glycine in PBS, 2% BSA) for 30 min at RT. 6.
- Incubate the cells with primary antibody: anti-Ki67 clonal antibody at the dilution of 1:100 - 1:200 in antibody dilution buffer (PBS, 1% BSA) for 1 hour at RT in humid
- Wash 2 x 3 min with PBS.
- Apply the secondary antibody (in this case, the goat anti-rabbit IgG-FITC from Jackson Immunoresearch, cat. # 111-095-00, was used at 1:300 in antibody dilution buffer, and cells were incubated for 1 hour at RT in dark).
- 10. Wash 3 x 3 min with PBS.
- 11. Rinse once with distilled water.
- 12. Mount the slide for observation, with a drop of anti-fade mounting medium.



Representative picture of Ki-67 expression in HEK293 cells, visualized with clonal rabbit anti-Ki-67 monospecific antibody. Primary antibody dilution -1:100.

Revision Date: 22.05.2017

PRECAUTIONS

- We strongly recommend to use DB Primary Antibody Diluent (catalog number DB D-125, or DB D-250), eventually alternative diluent (containing protease free BSA at the concentrations ≥ 1mg/ml) for dilution of concentrated antibodies, otherwise the warranty might be voided.
- Centrifuge the vial before use.
- Intended for professional In Vitro Diagnostic use in laboratories.
- Do not use after expiration date stamped on vial label.
- Avoid contamination of the reagent.
- Any discrepancies in the recommended procedures stated in the working protocol may 6. affect the final results.
- The reagent contains sodium azide (NaN₃) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous.
- Disposal of waste material must be conducted in accordance with local regulations.
- Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.