

Mouse p16 Monoclonal Antibody | anti-p16 antibody

Anti-p16, Mouse monoclonal antibody

CATALOG # AAA79022	HOST Mouse	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

p16; Monoclonal Antibody; Anti-p16; Mouse monoclonal antibody; anti-p16 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Clone Number	R15-A
Form/Format	20mM Tris-HCl, pH 8.0
Sequence Length	156
Applicable Applications for anti-p16 antibody	IHC (Immunohistochemistry)
Stabilizer	20mg/ml BSA
Preservative	0.05% NaN ₃
Immunogen	Human p16 protein
Cellular Localization	Cytoplasm, Nucleus
Positive Control	Cervical carcinoma tissue

IHC-P Protocol	1. Deparaffinize the section in 3 changes of xylene, 10 minutes each. 2. Wash the section in 96%, 80% and 70% ethyl alcohol for 10 minutes each. 3. Rinse in distilled water, 2 x 5 minutes. 4. Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide (H₂O₂) for 10 minutes. 5. Wash in distilled water, 2 x 5 minutes. 6. For antigen retrieval: Immerse the slide in Tris-EDTA buffer*, pH 9.0 and incubate at 95-97°C in water bath for 25 minutes. 7. Remove the staining to room temperature and let the slide to cool (in Tris-EDTA buffer, pH 9.0) for 15 minutes. 8. Rinse in distilled water, 2 x 5 minutes. 9. Wash in PBS (phosphate buffer saline, pH 7.0-7.5) supplemented with 0.05% of Tween-20 (buffer A), 2 x 5 minutes 10. CONCENTRATED: Incubate the section with primary antibody at the dilution 1:100 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 chamber. 11. Wash 3 x 5 minutes with buffer A. 12. Apply the secondary antibody, and proceed to standard immunohistochemistry protocol (HRP -Peroxide -DAB). Micropolymer-HRP detection kit rabbit/mouse 13. Wash 3 x 5 minutes with buffer A. 14. Apply the chromogen (DAB), 1 -3 minutes. 15. Wash in water, 2 x 5 minutes. 16. Stain in hematoxylin for 5 minutes. 17. Wash in distilled water, 3 x 2 minutes. 18. Mount the slide for observation. * Tris-EDTA Buffer (10mM Tris Base, 1mM EDTA solution, pH 9.0): Tris-----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 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.
Ventana Protocol	1. Deparaffinization. 2. Heating (72°C),at the medium temperatures. Deparaffinization. 3. Cell conditioning. 4. ULTRA conditioner #1. 5. Heating glass (95°C), incubation 8 min. (Cell conditioner #1; buffer CC1). 6. ULTRA CC1 solution application - 36 min. 7. Antibody incubation temperature. 8. Heating glass (36°C), incubation 4 min. 9. Titration. 10. Hand apply - primary antibody 100 ul. Incubation 36 min. 11. ultraWash. 12. Nuclear stain. 13. Hematoxylin II application - one drop (Nuclear stain). Cover and incubate 12 min. 14. After nuclear stain. 15. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min.
Leica Bond Max Protocol	Protocol F: - Visualization system: BOND Refine DS9800 - Epitope retrieval/heating time/temperature: ER2/20 min./100°C - Incubation of primary antibody/temperature : 30 min./20°C
Precautions	1. We strongly recommend to use Primary Antibody Diluent (Please Inquire), eventually alternative diluent (containing protease free BSA at the concentrations 1mg/ml) for dilution of concentrated antibodies, otherwise the warranty might be voided. 2. Centrifuge the vial before use. 3. Intended for professional use in laboratories. 4. Do not use after expiration date stamped on vial label. 5. Avoid contamination of the reagent. 6. Any discrepancies in the recommended procedures stated in the working protocol may affect the final results. 7. 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. 8. Disposal of waste material must be conducted in accordance with local regulations. 9. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.

IMAGES



IHC (Immunohistochemistry)

High grade squamous intraepithelial lesion of the uterine cervix stained with mouse anti-p16 (clone R15-A) monoclonal antibody, shows significant nuclear and cytoplasmic positivity of target cells. Formalin fixed, paraffin embedded human tissues (4µm sections) stained according to related datasheet.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502749
NCBI GeneID	1029
NCBI Accession #	NP_000068.1
NCBI GenBank Nucleotide #	NP_000068.1
UniProt Accession #	P42771; Q8N726
NCBI Official Full Name	cyclin-dependent kinase inhibitor 2A isoform p16INK4a
NCBI Official Synonym Full Names	cyclin dependent kinase inhibitor 2A
NCBI Official Symbol	CDKN2A
NCBI Official Synonym Symbols	ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A
NCBI Protein Information	cyclin-dependent kinase inhibitor 2A
UniProt Protein Name	Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3
UniProt Gene Name	CDKN2A
UniProt Synonym Gene Names	CDKN2; MTS1; CDK4I; MTS-1; p16-INK4; p16INK4A
UniProt Entry Name	CD2A1_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/p16-antibody-clone-r15-a-immunohistochemistry-elisa/79022>