

Rabbit anti-Human p16INK4a/CDKN2A Polyclonal Antibody | anti-p16INK4a/CDKN2A antibody

p16INK4a/CDKN2A Rabbit anti-Human Polyclonal (aa1-60) Antibody

CATALOG # AAA162953	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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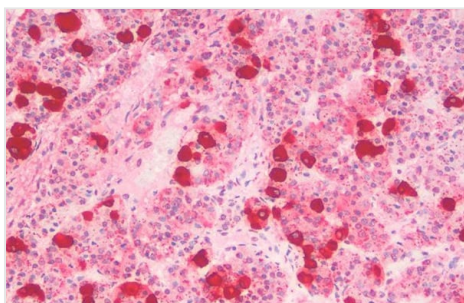
PRODUCT SYNONYMS

p16INK4a/CDKN2A; Polyclonal Antibody; p16INK4a/CDKN2A Rabbit anti-Human Polyclonal (aa1-60) Antibody; PathPlus p16INK4a/CDKN2A Antibody (aa1-60); INK4A; Multiple tumor suppressor 1; MTS-1; MTS1; p16-INK4A; p16 INK4A; p16INK4A; CDKN2A; cyclin-dependent kinase inhibitor 2A; anti-p16INK4a/CDKN2A antibody

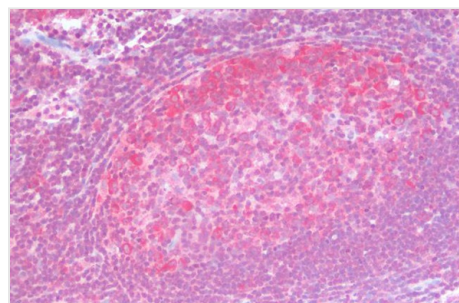
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody recognizes human p16INK4a protein transcribed from gene CDKN2A (NP_000068.1, P42771).
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, 0.1% Sodium Azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-p16INK4a/CDKN2A antibody	IHC (Immunohistochemistry)
Target	Human p16INK4a/CDKN2A
Immunogen	Peptide from within AA 1-60 of human p16ink4a/CDKN2A (P42771).
Conjugation	Unconjugated
Epitope	aa1-60
Preparation and Storage	Aliquot and store undiluted at -20 degree C or below for up to 1 year. Can be stored undiluted at 4 degree C for up to 1 month. Avoid freeze-thaw cycles.

IMAGES


IHC (Immunohistochemistry)

p16INK4a/CDKN2A Antibody-Human Pituitary: Formalin-Fixed, Paraffin-Embedded (FFPE)


IHC (Immunohistochemistry)

p16INK4a/CDKN2A Antibody-Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-p16INK4a/CDKN2A antibody	CDKN2A antibody is an unconjugated rabbit polyclonal antibody to CDKN2A (p16INK4a)(aa1-60) from human. p16 (p16ink4a) is one of multiple independent proteins transcribed from the gene CDKN2A. p16 can prevent phosphorylation of Rb protein (RB1) by inhibiting CDK4 and CDK6, and it manages the G1 to S transition in the cell cycle via this p16-Rb pathway. Furthermore, expression of p16 is involved in regulating cellular senescence. Cancers see frequent mutation, deletion and hypermethylation of CDKN2A, or alternatively may show overexpression of transcribed p16 protein alongside knockout of its repressor RB1. Thus, both up- and down-regulation of p16 as part of the dysregulation of the p16-Rb pathway can be indicative of loss of senescent properties and a breakdown of the negative regulation of proliferation in the cell. In immunohistochemistry, p16 antibodies are frequently used when examining anogenital lesions and in the identification of HPV-associated precancerous lesions. Overexpression correlates with oncogenic HPV infection, particularly alongside loss of RB expression. Typical positive staining of p16 is described as a "block" of ten to twenty cells that together show strong nuclear and cytoplasmic expression. p16 is also positive in squamous cell carcinoma, Mullerian serous carcinoma, and head and neck carcinoma, and high expression is correlated with high grade cancers. Lastly, it should be noted that p16-specific antibodies do not cross-react with p14ARF (also from CDKN2A), as these two proteins are transcribed from alternative open reading frames.
References	Park, Ben Ho et al. Holland-Frei Cancer Medicine. 6th edition. Hamilton (ON): BC Decker; 2003, URL: https://www.ncbi.nlm.nih.gov/books/NBK13507/ ; Int J Cancer. 2012 Apr 15;130(8):1715-25, PMID: 22025288; Cancer Res. 1994 Dec 1;54(23):6078-82, PMID: 7954450; Hum Pathol. 2017 Aug;66:144-151, PMID: 28705710

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/polyclonal/p16ink4a-cdkn2a-antibody-immunohistochemistry-elisa/162953>