

Datasheet for ABIN487338  
**anti-CDKN2D antibody**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	0.1 mg
Target:	CDKN2D
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDKN2D antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Bacterially produced GST-tagged fusion proteins of full-length p19INK4d. Remarks: Hybridoma was established by fusion of Mouse myeloma cell NS-2 with Balb/cmouse splenocyte.
Clone:	DCS-100
Isotype:	IgG1
Specificity:	This antibody reacts with Human p19INK4d
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Characteristics:	Synonyms: p19-INK4d, p19, INK4D, Cyclin-dependent kinase 4 inhibitor D
Purification:	Protein-A Sepharose Chromatography.

## Target Details

Target:	CDKN2D
Alternative Name:	CDKN2D / p19INK4d ( <a href="#">CDKN2D Products</a> )
Background:	The INK4 family of proteins consists of four members that block progression from the G(1)-to-S phase of the cell cycle by inhibiting the activity of Cdk4 and Cdk6. p19INK4d is a 165 amino acid protein with strong structural and functional similarity to p16INK4a, a known tumor suppressor. Mutations in p19INK4d have also been associated with human osteosarcomas.Synonyms: Cyclin-dependent kinase 4 inhibitor D, INK4D, p19, p19-INK4d
Gene ID:	1032
UniProt:	<a href="#">P55273</a>
Pathways:	<a href="#">Cell Division Cycle</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a>

## Application Details

Application Notes:	<p>Western Blot: 1 µg/mL Positive Control: Jurkat cells. Immunoprecipitation: 3 µg/200-300 µL of cell extract. Positive Control: Jurkat cells. Immunohistochemistry: 1-5 µg/mL Heat treatment is necessary for Paraffin Embedded Sections. Microwave oven: 2 times for 10 minutes each in citrate buffer ( pH 6.5). Positive Control: Tonsil Tissue. Detailed procedure is provided in Protocols.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Protocol:	<p>SDS-PAGE &amp; Western Blotting</p> <ol style="list-style-type: none"><li>1) Wash the cells 3 times with PBS and suspend with 10 volume of cold Lysis buffer (50 mM Tris-HCl, pH 7. 2, 250 mM NaCl, 0. 1% NP-40, 2 mM EDTA, 10% glycerol) containing appropriate protease inhibitors. Incubate it at 4°C with rotating for 30 minutes, then sonicate briefly (up to 10 seconds).</li><li>2) Centrifuge the tube at 12,000 x g for 10 minutes at 4°C and transfer the supernatant to another tube. Measure the protein concentration of the supernatant and add the Lysis buffer to make 8 mg/mL solution.</li><li>3) Mix the sample with equal volume of Laemmli's sample buffer.</li><li>4) Boil the samples for 2 minutes and centrifuge. Load 10 µL of the sample per lane in a 1mm thick SDS-polyacrylamide gel for electrophoresis.</li><li>5) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm<sup>2</sup> for 1 hour in a semi-dry transfer system. (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacture's manual for the transfer procedure.</li><li>6) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7. 2) for 1 hour at room temperature, or overnight at 4°C.</li><li>7) Incubate the membrane with the anti-p19INK4d (DCS-100) monoclonal antibody (1µ</li></ol>

## Application Details

g/mL) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hour at room temperature. 8) Wash the membrane with PBS (5 minutes x 6 times). 9) Incubate the membrane with the 1:10000 HRP-conjugated anti-mouse IgG diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hour at room temperature. 10) Wash the membrane with PBS (5 minutes x 6 times). 11) Wipe excess buffer from the membrane, then incubate it with appropriate chemiluminescence reagents for 1 minute. Remove extra reagent from the membrane by dabbing with a paper towel, and seal it in plastic wrap. 12) Expose to an X-ray film in a dark room for 5 minutes. Develop the film as usual. The conditions for exposure and development may vary. Positive Control for Western blotting: Jurkat Cells. Immunoprecipitation 1) Wash the cells 3 times with PBS and suspend with 10 volume of cold Lysis buffer (50 mM Tris-HCl, pH 7.2, 250 mM NaCl, 0.1% NP-40, 2 mM EDTA, 10% glycerol) containing appropriate protease inhibitors. Incubate it at 4°C with rotating for 30 minutes, then sonicate briefly (up to 10 seconds). 2) Centrifuge the tube at 12,000 x g for 10 minutes at 4°C and transfer the supernatant to another tube. 3) Add 3 µg of the anti-p19INK4d (DCS-100) monoclonal antibody into 250 µL of the supernatant. Mix well and incubate with gentle agitation for 30-120 minutes at 4°C. Add 20 µL of 50% Protein A-agarose beads resuspended in the Lysis buffer. Mix well and incubate with gentle agitation for 60 minutes at 4°C. 4) Wash the beads 3-5 times with ice-cold Lysis buffer (centrifuge the tube at 2,500 x g for 10 seconds). 5) Resuspend the beads in 20 µL of Laemmli's sample buffer, boil for 3-5 minutes, and centrifuge for 5 minutes. Use 10 µL/lane for the SDS-PAGE analysis. (See SDS-PAGE & Western blotting.) Positive Controls for immunoprecipitation: Jurkat cells.

Restrictions:	For Research Use only
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## Handling

Concentration:	1.0 mg/mL
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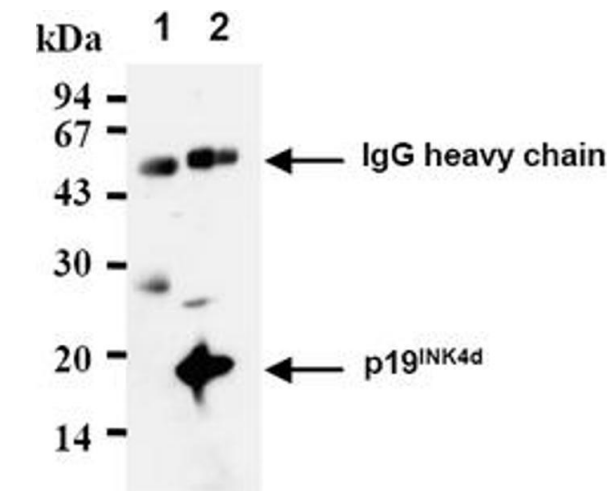
Buffer:	PBS, pH 7.2 containing 50 % Glycerol without preservatives.
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Preservative:	Without preservative
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Storage:	-20 °C
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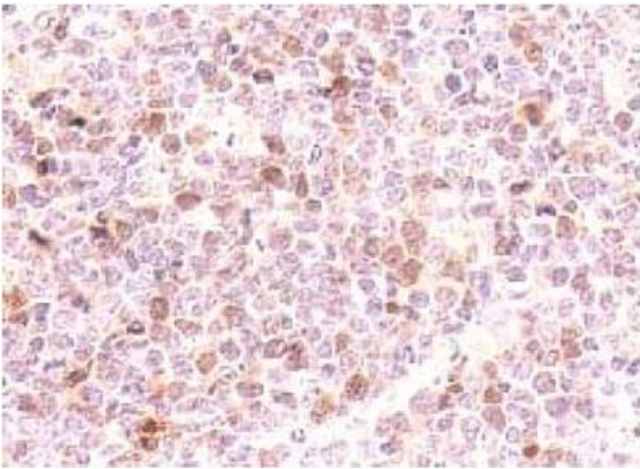
Storage Comment:	Store the antibody undiluted at -20 °C. Shelf life: one year from despatch.
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Expiry Date:	12 months
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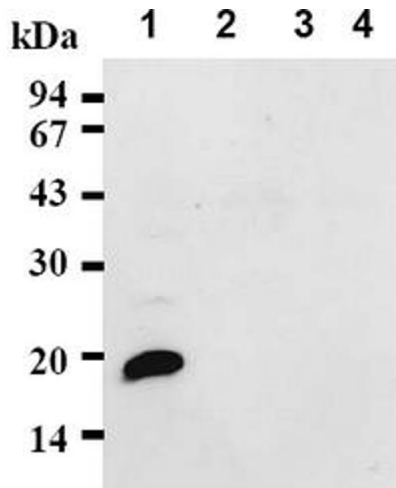
Western Blotting

Image 1.



Immunohistochemistry

Image 2.



Western Blotting

Image 3.