

Datasheet: VPA00748KT

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| Description: | CDK2 ANTIBODY WITH CONTROL LYSATE |
| Specificity: | CDK2 |
| Format: | Purified |
| Product Type: | PrecisionAb™ Polyclonal |
| Isotype: | Polyclonal IgG |
| Quantity: | 2 Westerns |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪ | | | 1/1000 |

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

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| Target Species | Human |
| Species Cross Reactivity | Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Preparation | 20µl Rabbit polyclonal antibody purified by affinity chromatography on Protein A |
| Buffer Solution | Phosphate buffered saline |
| Preservative | 0.09% Sodium Azide (NaN ₃) |
| Stabilisers | 2% Sucrose |
| Immunogen | Synthetic peptide encompassing the C terminal region of human CDK2 |
| External Database Links | <p>UniProt: P24941 Related reagents</p> <p>Entrez Gene: 1017 CDK2 Related reagents</p> |

Specificity

Rabbit anti Human CDK2 antibody recognizes cyclin-dependent kinase 2, also known as cdc2-related protein kinase, cell division protein kinase 2 and p33 protein kinase.

The protein encoded by CDK2 is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of CDK2 have been reported (provided by RefSeq, Jul 2008).

Rabbit anti Human CDK2 antibody detects a band of 33 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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| Western Blotting | Anti CDK2 antibody recognizes a band of approximately 33 kDa in Jurkat cell lysates |
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| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page. |
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| Lysate Composition | 400µg Jurkat lysate lyophilized in RIPA buffer |
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| Lysate Reconstitution | - If using DDT reconstitute the lyophilized lysate with 190µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. - If using BME reconstitute the lyophilized lysate with 180µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol. |
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| Storage | Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles. Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage. |
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| Guarantee | As supplied, 12 months from date of despatch |
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| Acknowledgements | PrecisionAb™ is a trademark of Bio-Rad Laboratories. |
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| Health And Safety Information | Material Safety Datasheet documentation #10045 #10561 available at: Antibody (10045): https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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