For Research Use Only

CDK2 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number:83635-2-PBS



Basic Information

Catalog Number: GenBank Accession Number:

83635-2-PBS BC003065

Size: Genel D (NCBI):

100ug , Concentration: 1 mg/ml by 1017
Nanodrop; UNIPROT ID:
Source: P24941

Rabbit Full Name:

Isotype: cyclin-dependent kinase 2

IgG Calculated MW:
Immunogen Catalog Number: 298 aa, 34 kDa
AG17133 Observed MW:
30-33 kDa

Purification Method: Protein A purification

CloneNo.: 240580G11

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), Cytometric bead array,

Indirect ELISA
Species Specificity:

human, rat

Product Information

83635-2-PBS targets CDK2 as part of a matched antibody pair:

MP00611-1: 83635-3-PBS capture and 83635-2-PBS detection (validated in Cytometric bead array)

MP00611-2: 83635-2-PBS capture and 83635-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

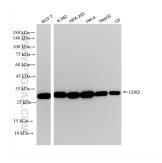
Background Information

CDK2(Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily. It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. It has 2 isoforms produced by alternative splicing.

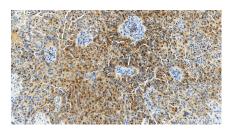
Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

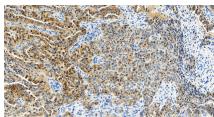
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83635-2-RR (CDK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83635-2-PBS in a different storage buffer formulation.



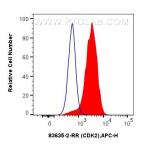
Immunohistochemical analysis of paraffinembedded human ovarian cancer slide using 83635-2-RR (CDK2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83635-2-PBS in a different storage buffer formulation.



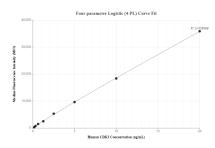
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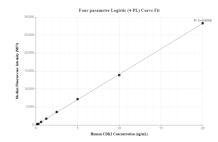
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CDK2 antibody (83635-2-RR, Clone: 240580G11) at dilution of 1:200 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83635-2-PBS in a different storage buffer formulation.



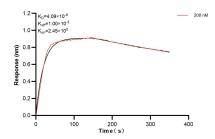
1x10^6 HeLa cells were intracellularly stained with 0.25 ug CDK2 Recombinant antibody (83635-2-RR, Clone:240580G11) and APC-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 83635-2-PBS in a different storage buffer formulation.



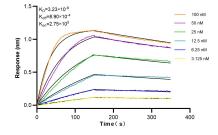
Cytometric bead array standard curve of MP00611-1, CDK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83635-3-PBS. Detection antibody: 83635-2-PBS. Standard: Ag17133. Range: 0.156-20 ng/mL



Cytometric bead array standard curve of MP00611-2, CDK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83635-2-PBS. Detection antibody: 83635-1-PBS. Standard: Ag17133. Range: 0.156-20 ng/mL



Biolayer interferometry (BLI) kinetic assay of 83635-2-PBS against Human CDK2 was performed. The affinity constant is 4.09 nM.



Biolayer interferometry (BLL) kinetic assays of 83635-2-RR against Human CDK2 were performed. The affinity constant is 3.23 nM.