

Human CDK8 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6809

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CDK8 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CD rhCDK4, and CDK6 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human CDK8 Asn380-Tyr464 Accession # P49336		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

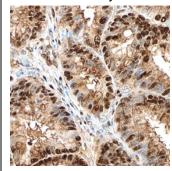
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	5-15 μg/mL	See Below

DATA

Immunohistochemistry



CDK8 in Human Colon. CDK8 was detected in immersion fixed paraffinembedded sections of human colon using Sheep Anti-Human CDK8 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF6809) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CDK8 (cyclin-dependent kinase 8; also K35) is a 53-55 kDa member of the CDC2/CDKX subfamily, CMGC Ser/Thr protein kinase family of enzymes. Together with cyclin C, MED12 and MED13, CDK8 forms a "CDK8 module" that contributes to the structure of a four module Mediator complex. CDK8 would appear to have multiple functions. It can block transcription, and the re-initiation of transcription; it can also promote the transcription of thyroid hormone target genes; and it appears to phosphorylate the ICD of Notch, promoting its degradation. Human CDK8 is 464 amino acids (aa) in length. It contains one protein kinase domain (aa 21-335) and two utilized phosphorylation sites at Thr410 and Ser413. There are two potential alternative start sites at Met174 and Met61. Over aa 380-464, human CDK8 shares 98% aa identity with mouse CDK8.

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