

### Goat Anti-CDK10 / PISSLRE Antibody

Peptide-affinity purified goat antibody Catalog # AF1221a

### **Specification**

### Goat Anti-CDK10 / PISSLRE Antibody - Product Information

Application WB, E
Primary Accession Q15131

Other Accession NP\_443714, 8558

Reactivity
Host
Clonality
Concentration
Isotype
Human
Goat
Polyclonal
100ug/200ul
Isotype
IgG

Isotype IgG
Calculated MW 41038

# Goat Anti-CDK10 / PISSLRE Antibody - Additional Information

#### **Gene ID 8558**

### **Other Names**

Cyclin-dependent kinase 10, 2.7.11.22, Cell division protein kinase 10, Serine/threonine-protein kinase PISSLRE, CDK10

#### **Dilution**

WB~~1:1000

E~~N/A

#### **Format**

0.5~mg~lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

# Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

Goat Anti-CDK10 / PISSLRE Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-CDK10 / PISSLRE Antibody - Protein Information

### Name CDK10

### **Function**

Cyclin-dependent kinase that phosphorylates the transcription factor ETS2 (in vitro) and positively controls its proteasomal degradation (in cells) (PubMed:<a



href="http://www.uniprot.org/citations/24218572" target="\_blank">24218572</a>). Involved in the regulation of actin cytoskeleton organization through the phosphorylation of actin dynamics regulators such as PKN2. Is a negative regulator of ciliogenesis through phosphorylation of PKN2 and promotion of RhoA signaling (PubMed:<a href="http://www.uniprot.org/citations/27104747" target="\_blank">27104747</a>).

**Cellular Location** 

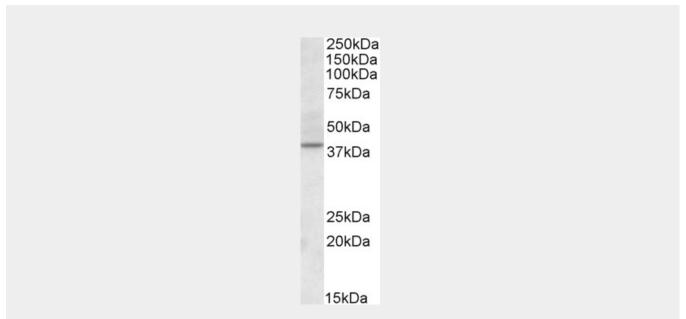
Cytoplasm, cytoskeleton, cilium basal body

#### Goat Anti-CDK10 / PISSLRE Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Goat Anti-CDK10 / PISSLRE Antibody - Images



AF1221a (2  $\mu$ g/ml) staining of Human Kidney lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-CDK10 / PISSLRE Antibody - Background

The protein encoded by this gene belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation and its function is limited to cell cycle G2-M phase. Multiple transcript variants encoding different isoforms have been found for this gene.

### Goat Anti-CDK10 / PISSLRE Antibody - References





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CDK10 is not a target for aberrant DNA methylation in breast cancer. Heller G, et al. Anticancer Res, 2009 Oct. PMID 19846932.

Genome-wide association study identifies three loci associated with melanoma risk. Bishop DT, et al. Nat Genet, 2009 Aug. PMID 19578364.

A genome-wide association study identifies novel alleles associated with hair color and skin pigmentation. Han J, et al. PLoS Genet, 2008 May 16. PMID 18483556.

Identification of CDK10 as an important determinant of resistance to endocrine therapy for breast cancer. lorns E, et al. Cancer Cell, 2008 Feb. PMID 18242510.

Proteomics analysis of protein kinases by target class-selective prefractionation and tandem mass spectrometry. Wissing J, et al. Mol Cell Proteomics, 2007 Mar. PMID 17192257.