Product datasheet

Anti-CDK13 Antibody

Catalog Number: *A05292-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-CDK13 Antibody
Gene Name	CDK13
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human CDK13 recombinant protein (Position: D1052-N1338).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	185-190KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 µg/1x10^6 cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cyclin dependent kinase 13 is an enzyme that in humans is encoded by the CDK13 gene. The protein encoded by this gene is a member of the cyclin-dependent serine/threonine protein kinase family. Members of this family are well known for their essential roles as master switches in cell cycle control. The exact function of this protein has not yet been determined, but it may play a role in mRNA processing and may be involved in regulation of hematopoiesis. Alternatively spliced transcript variants have been described.

Selected Validation Data

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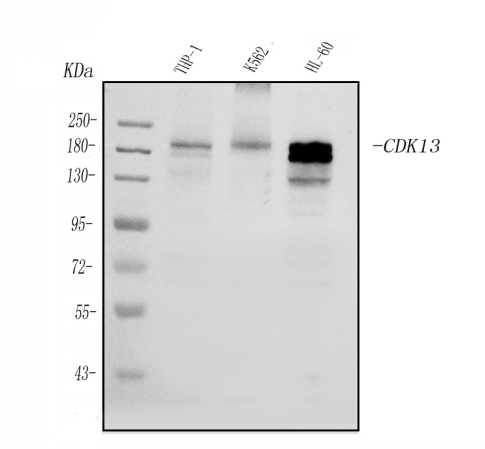

Figure 1. Western blot analysis of using anti CDK13 antibody (A05292-1).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human THP-1 tissue lysates,Lane 2: human K562 tissue lysates， Lane 3: human HL-60 tissue lysates.Use rabbit anti- CDK13 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002).A specific band was detected for CDK13 at approximately 185-190KD. The expected band size for CDK13 is at 165KD.

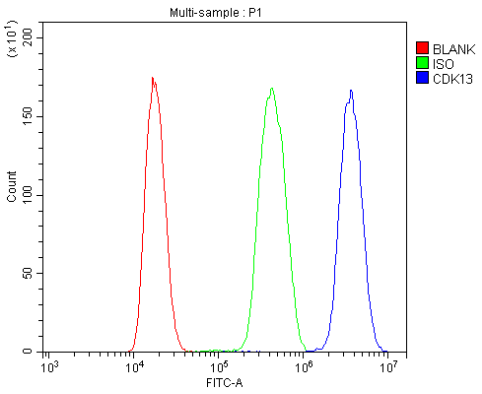

Figure 2. Flow cytometry analysis of K562 cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

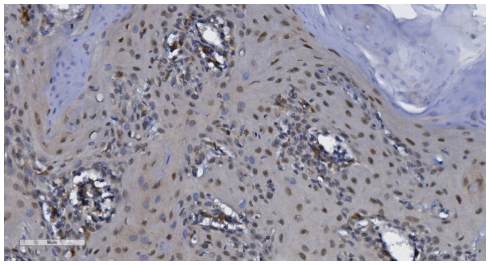

Figure 3. IHC analysis using anti- CDK13 antibody (A05292-1). detected in paraffin-embedded section of human esophageal squamous carcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

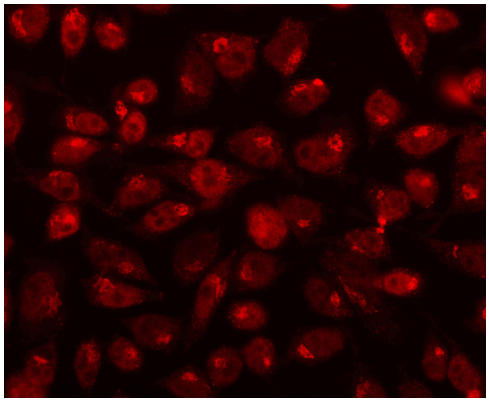

Figure 4. ICC analysis using anti- CDK13 antibody (A05292-1). was detected in immersion fixed HELA cell line. Cells were stained using the Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog # BA1142) and counterstained with DAPI (blue).

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