

ARG45427 anti-CDK13 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CDK13
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CDK13
Species	Human
Immunogen	Recombinant protein containing to human CDK13.
Conjugation	Un-conjugated
Alternate Names	CDK13; Cyclin Dependent Kinase 13; CDC2L; CHED; Cholinesterase-Related Cell Division Controller; KIAA1791; CDC2L5; Cell Division Cycle 2-Like Protein Kinase 5; Cell Division Protein Kinase 13; CDC2-Related Protein Kinase 5; Cyclin-Dependent Kinase 13; EC 2.7.11.22 47; HCDK13; Cell Division Cycle 2-Like 5 (Cholinesterase-Related Cell Division Controller); EC 2.7.11.23; EC 2.7.11 47; CHDFIDD

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	185 - 190 kDa	

Properties

Form	Powder
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

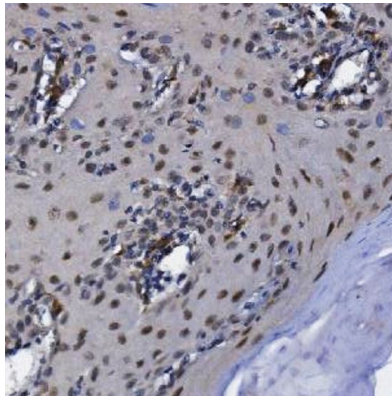
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

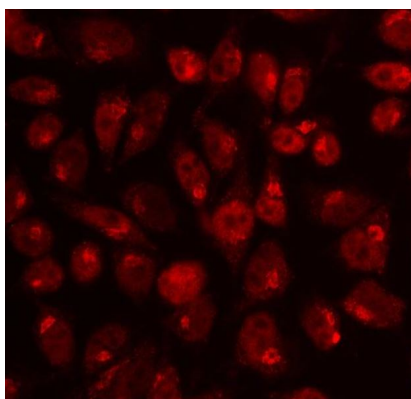
Gene Symbol	CDK13
Gene Full Name	Cyclin Dependent Kinase 13
Background	The protein encoded by this gene is a member of the cyclin-dependent serine/threonine protein kinase family. Members of this family are well known for their essential roles as master switches in cell cycle control. The exact function 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.[provided by RefSeq, Dec 2009]
Function	Cyclin-dependent kinase which displays CTD kinase activity and is required for RNA splicing. Has CTD kinase activity by hyperphosphorylating the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit RPB1, thereby acting as a key regulator of transcription elongation. Required for RNA splicing, probably by phosphorylating SRSF1/SF2. Required during hematopoiesis. In case of infection by HIV-1 virus, interacts with HIV-1 Tat protein acetylated at 'Lys-50' and 'Lys-51', thereby increasing HIV-1 mRNA splicing and promoting the production of the doubly spliced HIV-1 protein Nef. [UniProt]
Calculated Mw	165 kDa
PTM	Acetylation; Isopeptide bond; Phosphoprotein; Ubl conjugation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



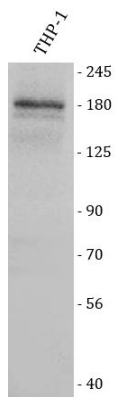
ARG45427 anti-CDK13 antibody IHC-P image

Immunohistochemistry: Human esophageal squamous carcinoma stained with ARG45427 anti-CDK13 antibody at 2 µg/ml dilution.



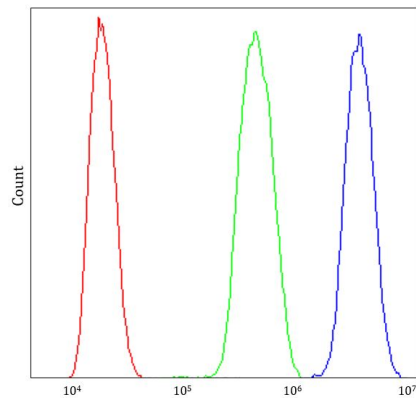
ARG45427 anti-CDK13 antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG45427 anti-CDK13 antibody at 5 µg/ml dilution.



ARG45427 anti-CDK13 antibody WB image

Western blot: THP-1 stained with ARG45427 anti-CDK13 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45427 anti-CDK13 antibody FACS image

Flow Cytometry: K562 stained with ARG45427 anti-CDK13 antibody at 1 $\mu\text{g}/10^6$ cells dilution.