


Product datasheet

Anti-CAST antibody ab92428

2 Images

Overview

Product name	Anti-CAST antibody
Description	Rabbit polyclonal to CAST
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla 
Immunogen	Synthetic peptide corresponding to Human CAST aa 400-500. Database link: O15446
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: Tris buffered saline, 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92428 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		
IHC-P		

Application notes

ICC/IF: Use at an assay dependent dilution.

IHC-P: 1/100 - 1/1500.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase I which synthesizes ribosomal RNA precursors. Isoform 1 is involved in UBTF-activated transcription, presumably at a step following PIC formation.

Isoform 2 has been described as a component of preformed T-cell receptor (TCR) complex.

Sequence similarities

Belongs to the eukaryotic RPA34 RNA polymerase subunit family.

Post-translational modifications

Isoform 2 undergoes tyrosine phosphorylation upon T-cell receptor (TCR) stimulation. This phosphorylation has not been confirmed by other group.

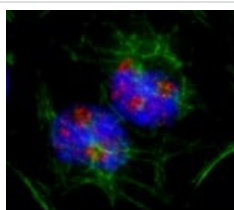
Isoform 1 is phosphorylated on tyrosine residues in initiation-competent Pol I-beta complexes but not in Pol I-alpha complexes.

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

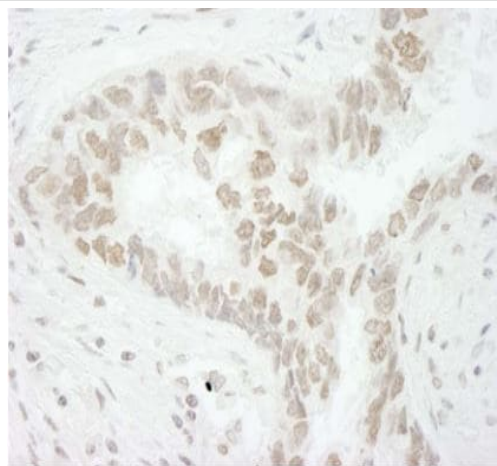
Nucleus > nucleolus. Chromosome. Found at the fibrillar centers of the nucleolus in interphase and during cell division it is localized to the nucleolus organizer regions of the chromosomes.

Images



Formaldehyde fixed asynchronous HeLa cells detected with ab92428 at 1/250 dilution

Immunocytochemistry/ Immunofluorescence - Anti-CAST antibody (ab92428)



Detection of human PAF49 by immunohistochemistry. *Sample:* FFPE section of human lung carcinoma. *Antibody:* Affinity purified rabbit anti-PAF49 used at 1/1,250 dilution. *Detection:* DAB

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CAST antibody (ab92428)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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