

Product datasheet

Anti-DDX21 antibody [EPR14495] ab182156

Recombinant RabMAb

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Overview

Product name	Anti-DDX21 antibody [EPR14495]
Description	Rabbit monoclonal [EPR14495] to DDX21
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, and Jurkat lysates. IHC-P: human breast carcinoma tissue. ICC/IF: HeLa cells and HepG2 cells. Flow Cyt (intra): HepG2 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14495
Isotype	IgG

Applications

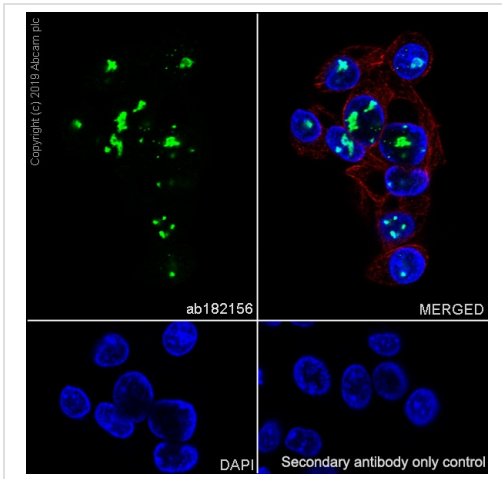
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab182156 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/60.
ICC/IF		1/500.
IHC-P		1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/50 - 1/100
WB		1/1000 - 1/10000. Detects a band of approximately 87 kDa (predicted molecular weight: 87 kDa).

Target

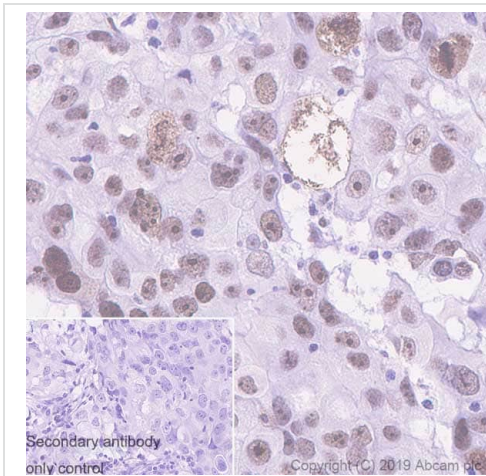
Function	Can unwind double-stranded RNA (helicase) and can fold or introduce a secondary structure to a single-stranded RNA (foldase). Functions as cofactor for JUN-activated transcription. Involved in rRNA processing.
Sequence similarities	Belongs to the DEAD box helicase family. DDX21/DDX50 subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
Domain	The two enzymatic activities reside in two separate domains, the helicase in the N-terminus and the foldase in the C-terminus. The 3 X 5 AA repeats seem to be critical for the RNA folding activity.
Cellular localization	Nucleus > nucleolus.

Images



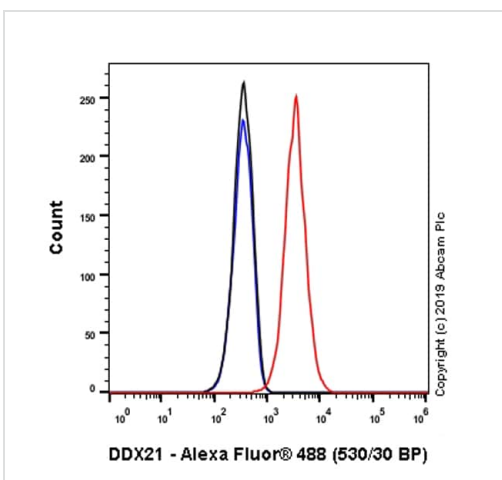
Immunocytochemistry/ Immunofluorescence - Anti-DDX21 antibody [EPR14495] (ab182156)

Immunocytochemistry/ Immunofluorescence analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling DDX21 with Purified ab182156 at 1:200 dilution (2.88 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



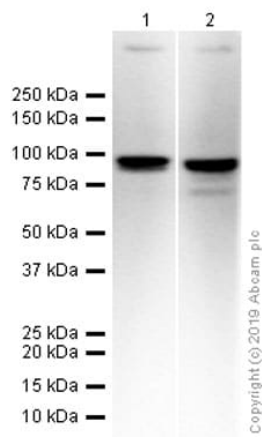
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDX21 antibody [EPR14495] (ab182156)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling DDX21 with Purified ab182156 at 1:200 dilution (2.89 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-DDX21 antibody [EPR14495] (ab182156)

Intracellular Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling DDX21 with Purified ab182156 at 1/60 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-DDX21 antibody [EPR14495] (ab182156)

All lanes : Anti-DDX21 antibody [EPR14495] (ab182156) at 1/10000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : Jurkat (Human Tcellleukemia Tlymphocyte) whole cell lysates

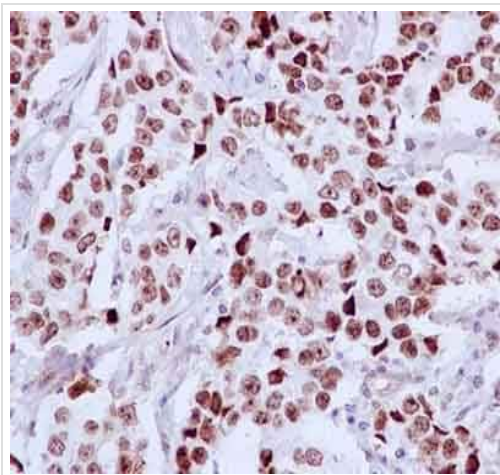
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 87 kDa

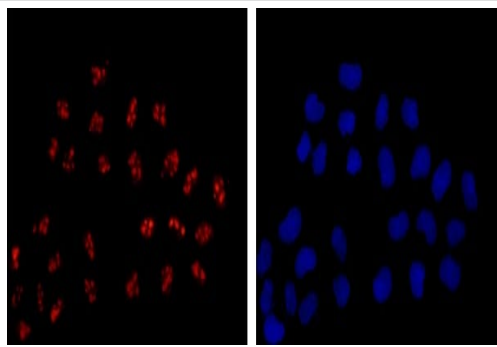
Observed band size: 87 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDX21 antibody [EPR14495] (ab182156)

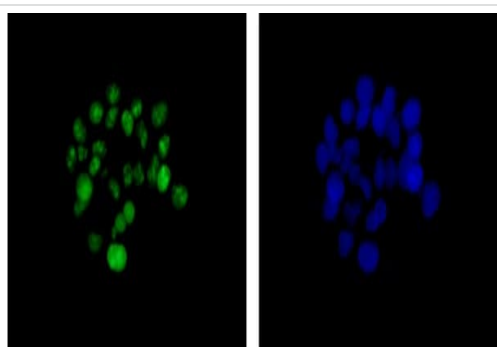
Immunohistochemical analysis of paraffin-embedded Human infiltrating duct carcinoma of breast tissue, staining DDX21 with ab182156 at 1/100 dilution. Hematoxylin was used as a counterstain.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-DDX21 antibody [EPR14495] (ab182156)





Immunofluorescence analysis of HeLa cells, staining DDX21 (red) with ab182156 at 1/100 dilution. An Alexa Fluor®555 goat anti rabbit IgG was used as a secondary antibody. Cells were fixed with -20% Acetone. Nuclei were counterstained with DAPI (blue).



Immunocytochemistry/ Immunofluorescence - Anti-DDX21 antibody [EPR14495] (ab182156)

Immunofluorescence analysis of HepG2 cells, staining DDX21 (green) with ab182156 at 1/100 dilution. An Alexa Fluor®488 goat anti rabbit IgG was used as a secondary antibody. Cells were fixed in 4% paraformaldehyde. Nuclei were counterstained with DAPI (blue).

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-DDX21 antibody [EPR14495] (ab182156)

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

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