

Product datasheet

Anti-DDX5 antibody ab21696

KO VALIDATED

★★★★★ [6 Abreviews](#) [29 References](#) [4 Images](#)

Overview

Product name	Anti-DDX5 antibody
Description	Rabbit polyclonal to DDX5
Host species	Rabbit
Specificity	Replenishment batches of our polyclonal antibody, ab21696 are tested in WB. Previous batches were additionally validated in ICC/IF. This application is still expected to work and is covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, ab126730 .
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human DDX5 aa 600 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab22412)
Positive control	This antibody gave a positive signal in the following lysates: Hela nuclear lysate MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate Testis (Mouse) Tissue Lysate - normal tissue PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate ICC/IF: HeLa cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab21696 in the following tested applications.

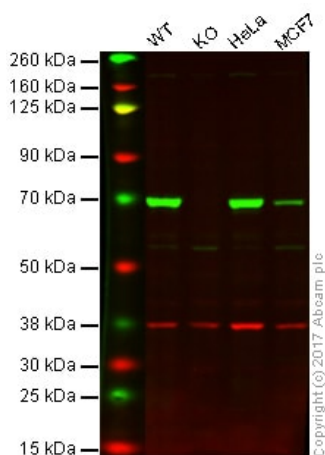
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★★★ (3)	Use a concentration of 1 µg/ml. Detects a band of approximately 69 kDa (predicted molecular weight: 69 kDa).

Target

Function	RNA-dependent ATPase activity. The rate of ATP hydrolysis is highly stimulated by single-stranded RNA. May be involved in pre-mRNA splicing.
Sequence similarities	Belongs to the DEAD box helicase family. DDX5/DBP2 subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
Post-translational modifications	Arg-502 is dimethylated, probably to asymmetric dimethylarginine.
Cellular localization	Nucleus > nucleolus.

Images



Western blot - Anti-DDX5 antibody (ab21696)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: DDX5 knockout HAP1 whole cell lysate (20 µg)

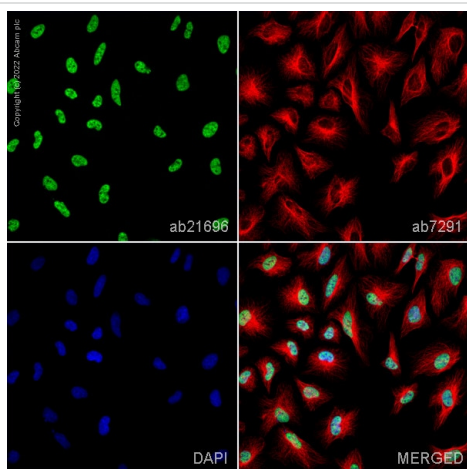
Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: MCF7 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab21696 observed at 69 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab21696 was shown to specifically react with DDX5 in wild-type HAP1 cells as signal was lost in DDX5 knockout cells. Wild-type and DDX5 knockout samples were subjected to SDS-PAGE.

Ab21696 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



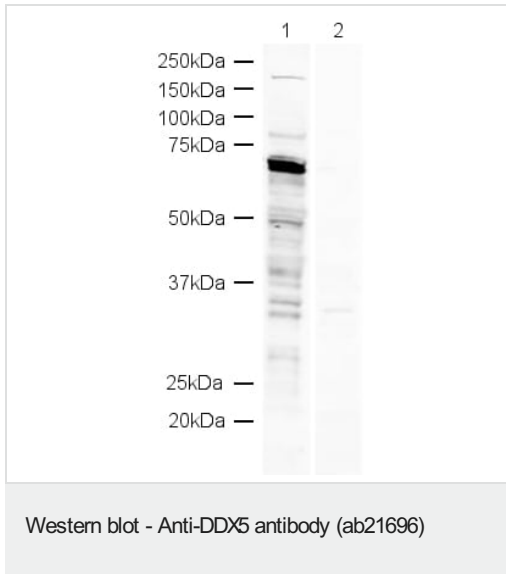
Immunocytochemistry/ Immunofluorescence - Anti-DDX5 antibody (ab21696)

ab21696 staining DDX5 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab21696 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

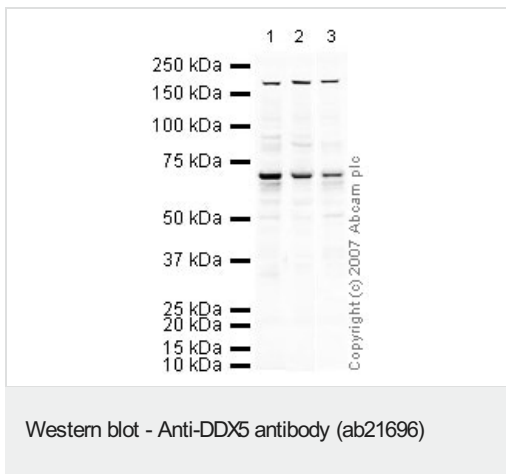
Also suitable in cells fixed with 4% paraformaldehyde (10 min).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal

sections is shown.



ab21696 recognizes a clear, strong band at ~69kDa corresponding to DDX5. A number of other, non specific bands are weakly recognized by the antibody. All bands are quenched by the addition of the blocking peptide.



All lanes : Anti-DDX5 antibody (ab21696) at 1 µg/ml

Lane 1 : MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

Lane 2 : Testis (Mouse) Tissue Lysate - normal tissue

Lane 3 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 69 kDa

Observed band size: 70 kDa

Additional bands at: 170 kDa. We are unsure as to the identity of these extra bands.

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