abcam

ab250475

Anti-DUS2L antibody [EPR14042] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR14042
Purification technique	Affinity purification

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information DUS2

Function	Catalyzes the NADPH-dependent synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs (PubMed:15994936, PubMed:26429968, PubMed:30149704, PubMed:34798057, PubMed:38680565). Specifically modifies U20 in cytoplasmic tRNAs (PubMed:38680565). Activity depends on the presence of guanosine at position 19 in the tRNA substrate (PubMed:38680565). Negatively regulates the activation of EIF2AK2/PKR (PubMed:18096616).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250475 is the carrier-free version of ab181262.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

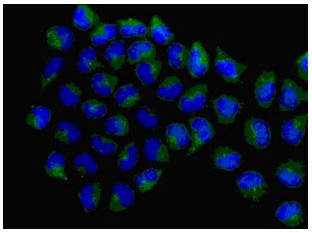
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

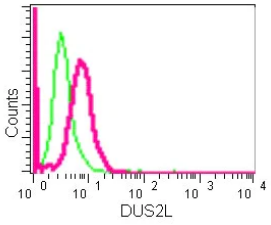
4 product images



Immunocytochemistry/ Immunofluorescence - Anti-DUS2L antibody [EPR14042] - BSA and Azide free (ab250475)

DUS2L Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-DUS2L antibody

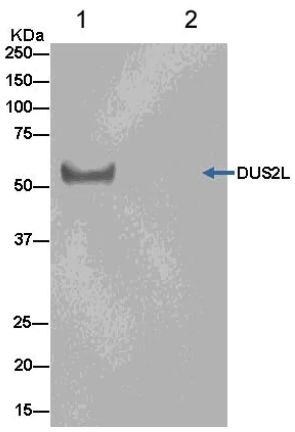
This data was developed using ab181262, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of HeLa cells (-20°C acetone-fixed) labeling DUS2L with ab181262 at 1/100 dilution, followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Flow Cytometry (Intracellular) - Anti-DUS2L antibody [EPR14042] - BSA and Azide free (ab250475)

DUS2L Flow Cytometry (Intracellular) staining using rabbit Anti-DUS2L antibody

This data was developed using ab181262, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of HeLa cells (paraformaldehyde-fixed, 2%) labeling DUS2L with ab181262 at 1/80 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.

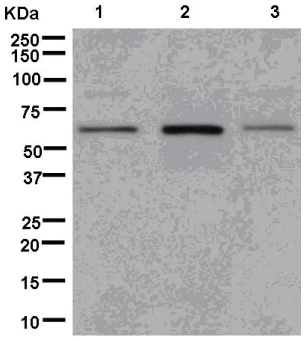


Immunoprecipitation - Anti-DUS2L antibody [EPR14042] - BSA and Azide free (ab250475)

This data was developed using ab181262, the same antibody clone in a different buffer formulation.
Western blot analysis of immunoprecipitation pellet from A549 cell lysate (lane 1) or a negative control (lane 2) immunoprecipitated using ab181262 at 1/50 dilution.
Secondary antibody: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

All lanes:
Immunoprecipitation - Anti-DUS2L antibody [EPR14042] (ab181262)

Predicted band size: 55 kDa



Western blot - Anti-DUS2L antibody [EPR14042] - BSA and Azide free (ab250475)

This data was developed using ab181262, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-DUS2L antibody [EPR14042] (ab181262) at 1/2000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
A549 cell lysate at 20 µg

Lane 3:
A431 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), HRP conjugated at 1/1000 dilution

Predicted band size: 55 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.