

Product datasheet

Anti-Quiescin Q6 antibody [EPR21866] - BSA and Azide free ab237600

Recombinant RabMAb

5 Images

Overview

Product name	Anti-Quiescin Q6 antibody [EPR21866] - BSA and Azide free
Description	Rabbit monoclonal [EPR21866] to Quiescin Q6 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Quiescin Q6 aa 550-650. The exact sequence is proprietary. Database link: O00391
Positive control	IHC-P: Human pancreatic cancer tissue.
General notes	Ab237600 is the carrier-free version of ab235444 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab237600 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

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 production

For more information [see here](#).

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

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21866
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237600** in the following tested applications.

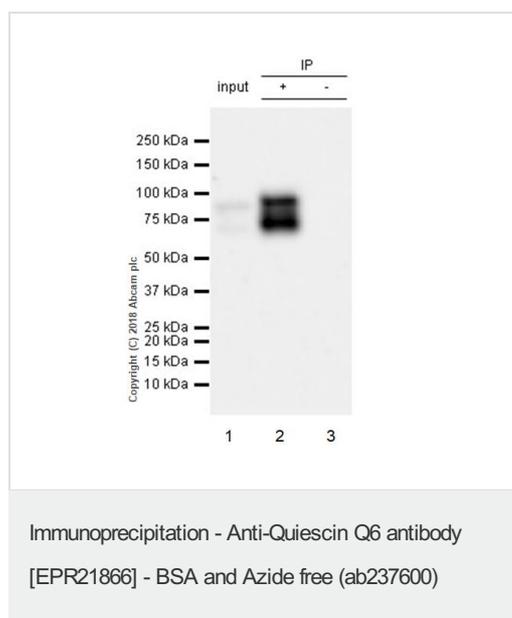
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 83, 67 kDa (predicted molecular weight: 83 kDa).
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	Catalyzes the oxidation of sulfhydryl groups in peptide and protein thiols to disulfides with the reduction of oxygen to hydrogen peroxide. May contribute to disulfide bond formation in a variety of secreted proteins. In fibroblasts, it may have tumor-suppressing capabilities being involved in growth regulation.
Tissue specificity	Expressed in heart, placenta, lung, liver, skeletal muscle, pancreas and very weakly in brain and kidney.
Sequence similarities	Belongs to the quiescin-sulfhydryl oxidase (QSOX) family. Contains 1 ERV/ALR sulfhydryl oxidase domain. Contains 1 thioredoxin domain.
Cellular localization	Golgi apparatus membrane and Secreted > extracellular space. Found in the extracellular medium of quiescent cells but is not found in proliferating cells.

Images



Quiescin Q6 was immunoprecipitated from 0.35 mg of MDA-MB-231 (Human breast adenocarcinoma cell line) whole cell lysate with [ab235444](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab235444](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

Lane 1: MDA-MB-231 whole cell lysate 10 µg (Input).

Lane 2: [ab235444](#) IP in MDA-MD-231 whole cell lysate.

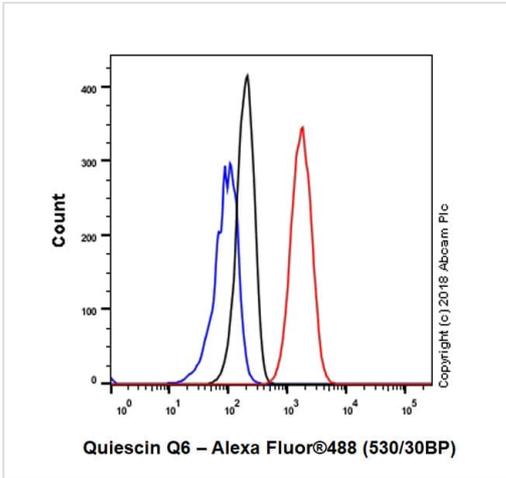
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab235444](#) in MDA-MD-231 whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 30 seconds.

Quiescin Q6 has two isoforms due to expression from a long (Quiescin Q6-L) and a short (Quiescin Q6-S) transcript.

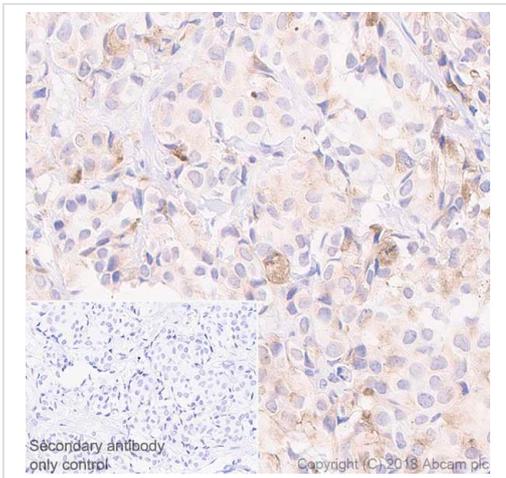
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab235444](#)).



Flow Cytometry - Anti-Quiescin Q6 antibody
[EPR21866] - BSA and Azide free (ab237600)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized MDA-MB-231 (Human breast adenocarcinoma cell line) cells labeling Quiescin Q6 with [ab235444](#) at 1/60 (red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)), at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab235444](#)).



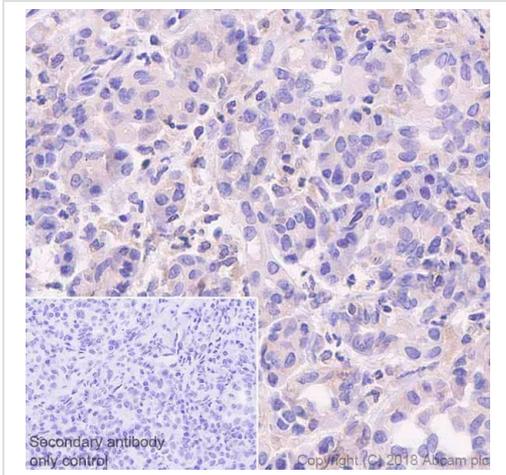
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Quiescin Q6 antibody
[EPR21866] - BSA and Azide free (ab237600)

Immunohistochemical analysis of paraffin-embedded human breast ductal cancer tissue labeling Quiescin Q6 with [ab235444](#) at 1/200 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining in human breast ductal cancer (PMID: 23536962) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab235444](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Quiescin Q6 antibody [EPR21866] - BSA and Azide free (ab237600)

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer tissue labeling Quiescin Q6 with [ab235444](#) at 1/200 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining in human pancreatic cancer (PMID: 19795908, 21989104) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab235444](#)).

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

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

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