

Anti-BRDT antibody [EPR25427-24] ab288435

Recombinant RabMAb

6 Images

Overview

Product name	Anti-BRDT antibody [EPR25427-24]
Description	Rabbit monoclonal [EPR25427-24] to BRDT
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt (Intra), ICC/IF or IP
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse testis and Rat testis IHC-P: Mouse testis and Rat testis
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 .

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. 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	EPR25427-24
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab288435 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
WB		1/1000. Predicted molecular weight: 108 kDa.
IHC-P		1/2000.

Application notes

Is unsuitable for Flow Cyt (Intra), ICC/IF or IP.

Target

Function

May play a role in the transcriptional regulation of spermatogenesis. Seems to have a structural ATP-independent role in the reorganization of acetylated chromatin.

Tissue specificity

Testis-specific. A 3-fold higher expression is seen in adult testis than in embryo testis. Expression seems to be correlated with histone H4 hyperacetylation during the haploid phase of spermatogenesis (spermiogenesis). No expression, or very low expression is seen in patients' testes with abnormal spermatogenesis. Expressed in cancers such as non-small cell lung cancer and squamous cell carcinomas of the head and neck as well as of esophagus, but not in melanoma or in cancers of the colon, breast, kidney and bladder.

Sequence similarities

Contains 2 bromo domains.

Developmental stage

Expressed in embryo testis.

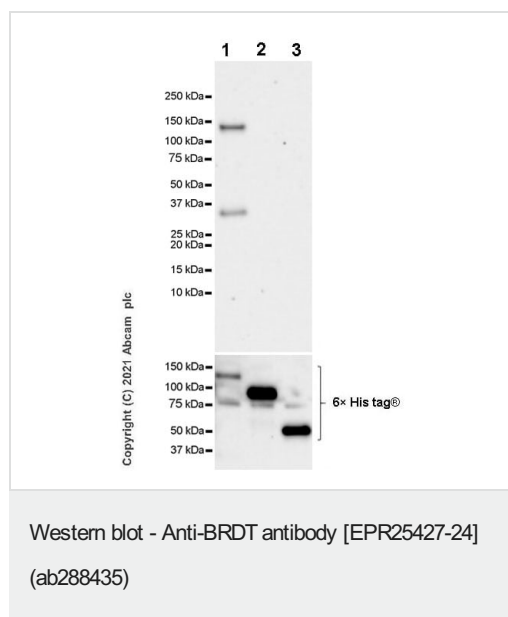
Domain

The two bromodomains are involved in the specific recognition of histone H4 acetylated N-terminus.

Cellular localization

Nucleus.

Images



All lanes : Anti-BRDT antibody [EPR25427-24] (ab288435) at 1/1000 dilution

Lane 1 : Human BRDT recombinant protein (aa 1-947) 20ng

Lane 2 : Human BRD3 recombinant protein (aa 1-726) 20ng

Lane 3 : Human BRD4 recombinant protein (aa 49-240) 20ng

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 108 kDa

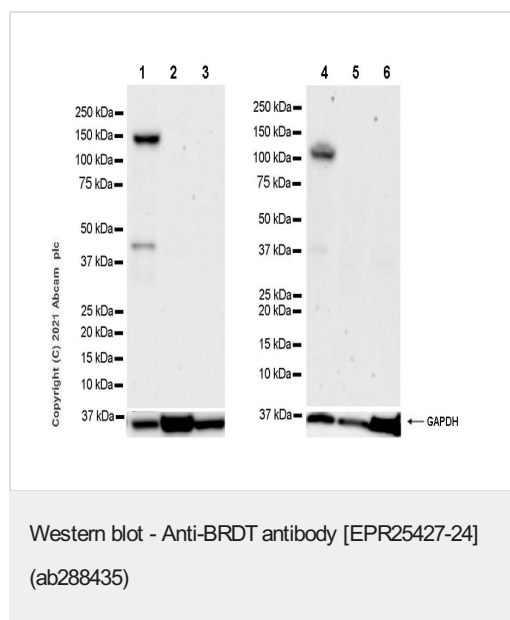
Observed band size: 130 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 59 seconds

This antibody has no cross-reaction with BRD3 and BRD4.

All the recombinant proteins are expressed from an E.coli expression system.



All lanes : Anti-BRDT antibody [EPR25427-24] (ab288435) at 1/1000 dilution

Lane 1 : Mouse testis tissue lysate at 20 µg

Lane 2 : Mouse kidney tissue lysate at 20 µg

Lane 3 : Mouse skeletal muscle tissue lysate at 20 µg

Lane 4 : Rat testis tissue lysate at 20 µg

Lane 5 : Rat kidney tissue lysate at 40 µg

Lane 6 : Rat skeletal muscle tissue lysate at 20 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 108 kDa

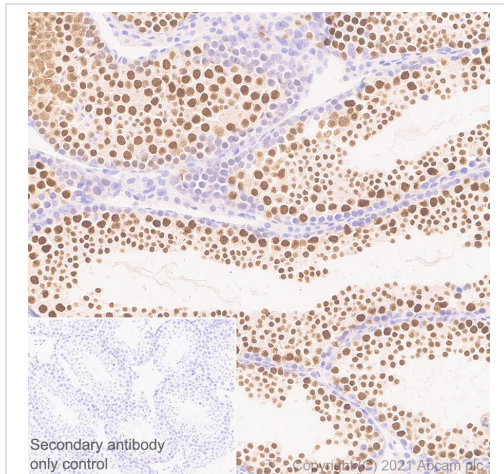
Observed band size: 130 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 125 seconds

Low expression: Kidney, Skeletal muscle

The observed MW/expression profile is consistent with what has been described in the literature (PMID: 33257688 & Uniprot)

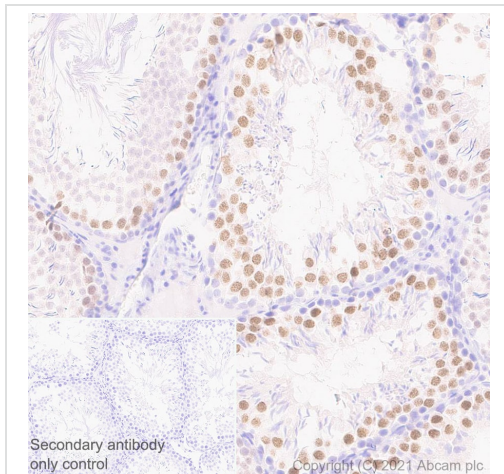


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRDT antibody [EPR25427-24] (ab288435)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labelling BRDT with ab288435 at 1/2000 (0.268 ug/ml) followed by a ready to use LeicaDS9800 (Bond™, Polymer Refine Detection) was used. Nuclear staining on germ cells in mouse testis. The section was incubated with ab288435 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™, Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

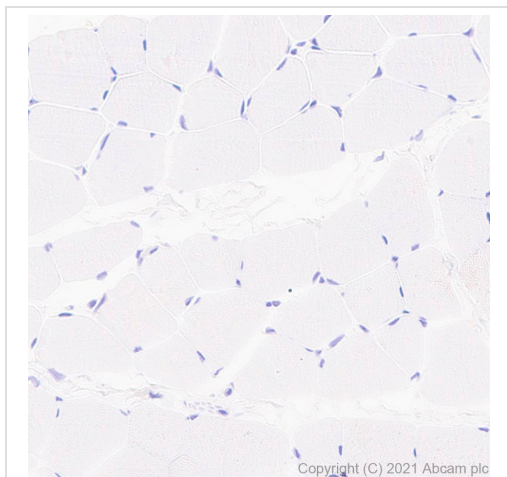


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRDT antibody [EPR25427-24] (ab288435)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labelling BRDT with ab288435 at 1/2000 (0.268 ug/ml) followed by a ready to use LeicaDS9800 (Bond™, Polymer Refine Detection) was used. Nuclear staining on germ cells in rat testis. The section was incubated with ab288435 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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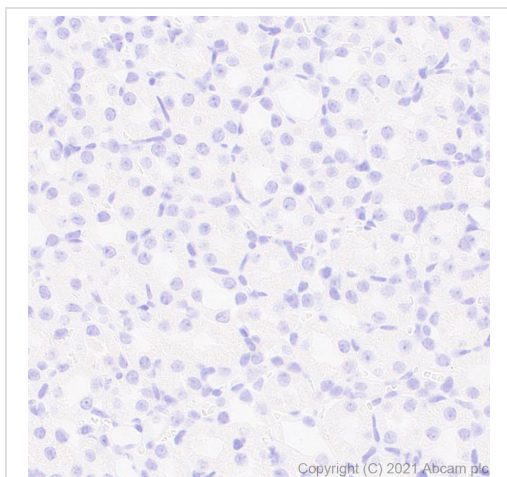


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRDT antibody [EPR25427-24] (ab288435)

Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labelling BRDT with ab288435 at 1/2000 (0.268 ug/ml) followed by a ready to use LeicaDS9800 (Bond™, Polymer Refine Detection) was used. Negative control: no staining on rat skeletal muscle. The section was incubated with ab288435 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™, Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRDT antibody [EPR25427-24] (ab288435)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labelling BRDT with ab288435 at 1/2000 (0.268 ug/ml) followed by a ready to use LeicaDS9800 (Bond™, Polymer Refine Detection) was used. Negative control: no staining on mouse kidney. The section was incubated with ab288435 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™, Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

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