

Product datasheet

Anti-BHMT + BHMT2 antibody [EPR20822] ab213491

Recombinant RabMAb

7 Images

Overview

Product name	Anti-BHMT + BHMT2 antibody [EPR20822]
Description	Rabbit monoclonal [EPR20822] to BHMT + BHMT2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat, Human, Recombinant fragment
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: His-tagged human BHMT2 and BHMT recombinant proteins; Human fetal liver and fetal kidney tissue lysate; Rat liver lysate. IHC-P: Human kidney and liver tissues; Rat liver tissue.
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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20822
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab213491 in the following tested applications.

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

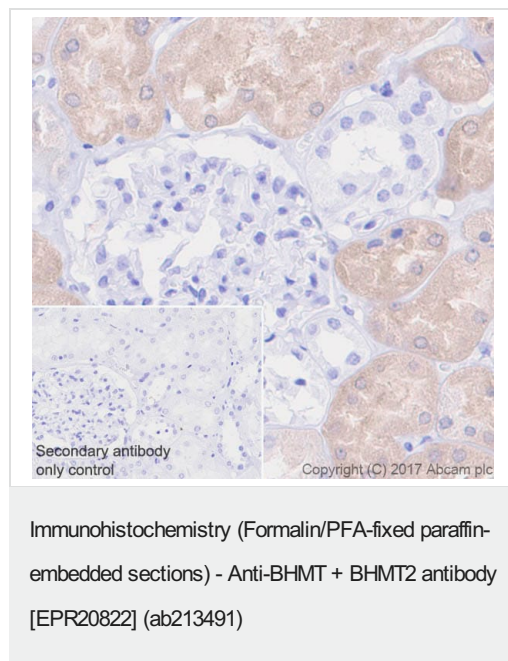
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 40 kDa.
IHC-P		1/20000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC note: 1:20,000, recommend human and rat. BHMT2 involved in the regulation of homocysteine metabolism. It's mainly expressed on liver and kidney and its subcellular location was cytoplasm. IHC results showed specific staining on liver and kidney of human and liver, mouse kidney was very weak staining

Target

Cellular localization

BHMT: Cytoplasm. BHMT2: Cytoplasmic

Images



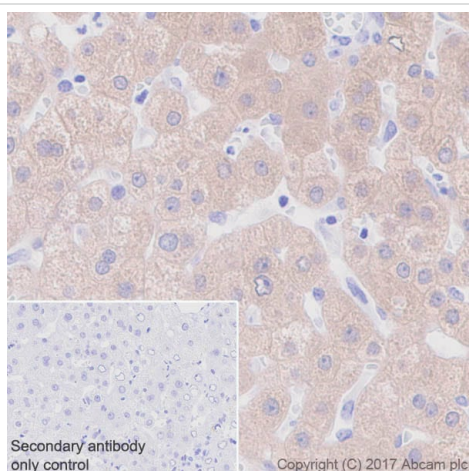
Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling BHMT + BHMT2 with ab213491 at 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Cytoplasmic staining on human kidney tissue is observed (PMID: 9281325; PMID: 26592251). Counter stained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat-mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

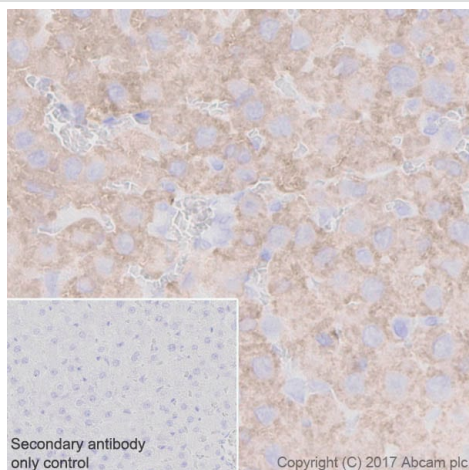
IHC note: **1:20,000, recommend human and rat.** BHMT2 involved in the regulation of homocysteine metabolism. It's mainly expressed on liver and kidney and its subcellular location was cytoplasm. IHC results showed specific staining on liver and kidney of human and liver, mouse kidney was very weak staining and testis leydig cells were non-specific staining. So IHC recommend human and rat.

Note: It can show nuclear staining if working at higher concentration.



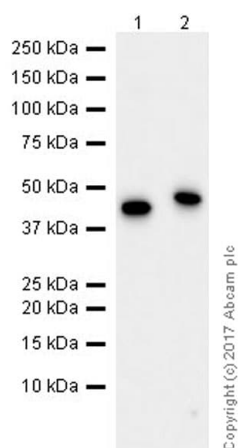
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BHMT + BHMT2 antibody [EPR20822] (ab213491)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling BHMT + BHMT2 with ab213491 at a 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on human liver is observed (PMID: 9281325; PMID: 26592251). Counter stained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BHMT + BHMT2 antibody [EPR20822] (ab213491)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling BHMT + BHMT2 with ab213491 at 1/20,000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on rat liver is observed (PMID: 9281325; PMID: 26592251).counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-BHMT + BHMT2 antibody
[EPR20822] (ab213491)

All lanes : Anti-BHMT + BHMT2 antibody [EPR20822] (ab213491)
at 1/1000 dilution

Lane 1 : Recombinant Human BHMT2 protein (denatured)
([ab180277](#))

Lane 2 : Recombinant Human BHMT protein ([ab51280](#))

Secondary

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

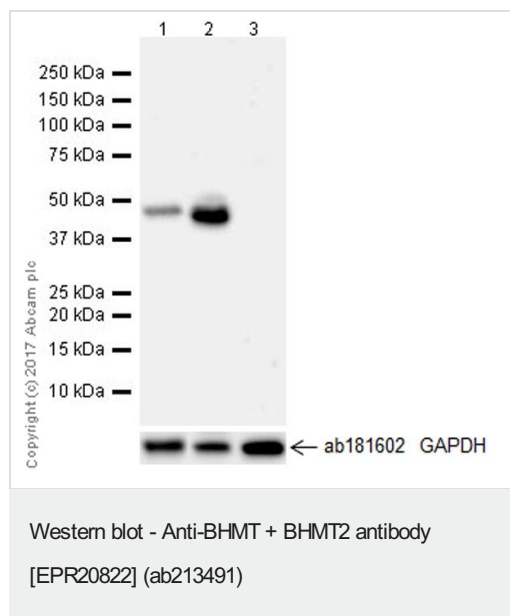
Predicted band size: 40 kDa

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

Lane 1 and 2 samples loaded at 10 ng.

Exposure time: 58 seconds.

The blot was developed on a BIO-RAD® ChemiDoc™ MP
instrument.



All lanes : Anti-BHMT + BHMT2 antibody [EPR20822] (ab213491) at 1/1000 dilution

Lane 1 : Human fetal liver tissue

Lane 2 : Human fetal kidney tissue

Lane 3 : Human fetal spleen tissue

Lysates/proteins at 20 µg per lane.

Secondary

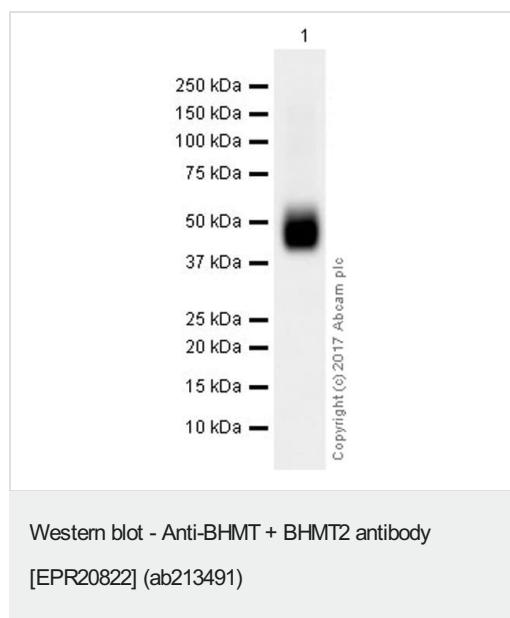
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 40 kDa

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

Exposure time: 3 minutes

BHMT and BHMT2 are mainly expressed in liver and kidney, **negative** in spleen and other tissues (PMID18457970; PMID: 11087663). The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument.



Anti-BHMT + BHMT2 antibody [EPR20822] (ab213491) at 1/1000 dilution + Rat liver tissue at 20 µg

Secondary

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

Predicted band size: 40 kDa

Observed band size: 45 kDa

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

Exposure time: 7 seconds.

The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument.

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-BHMT + BHMT2 antibody [EPR20822]
(ab213491)

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

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