

Product datasheet

Anti-ASS1 antibody [EPR12398] (HRP) α b209018

Recombinant RabMAb

2 Images

Overview

Product name	Anti-ASS1 antibody [EPR12398] (HRP)
Description	Rabbit monoclonal [EPR12398] to ASS1 (HRP)
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human ASS1 aa 1-100. The exact sequence is proprietary. Database link: P00966
Positive control	WB: HeLa whole cell lysate (ab150035), Human Liver tissue lysate. IHC-P: FFPE normal human liver tissue sections.
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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.1% Proclin Constituents: PBS, 1% BSA, 30% Glycerol
Purity	Immunogen affinity purified

Clonality	Monoclonal
Clone number	EPR12398
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab209018** 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		1/5000. Detects a band of approximately 44 kDa (predicted molecular weight: 47 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

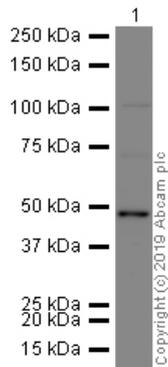
Target

Pathway Amino-acid biosynthesis; L-arginine biosynthesis; L-arginine from L-ornithine and carbamoyl phosphate: step 2/3.
Nitrogen metabolism; urea cycle; (N(omega)-L-arginino)succinate from L-aspartate and L-citrulline: step 1/1.

Involvement in disease Defects in ASS1 are the cause of citrullinemia type 1 (CTLN1) [MIM:215700]. Citrullinemia belongs to the urea cycle disorders. It is an autosomal recessive disease characterized primarily by elevated serum and urine citrulline levels. Ammonia intoxication is another manifestation. CTLN1 usually manifests in the first few days of life. Affected infants appear normal at birth, but as ammonia builds up in the body they present symptoms such as lethargy, poor feeding, vomiting, seizures and loss of consciousness. Less commonly, a milder CTLN1 form can develop later in childhood or adulthood.

Sequence similarities Belongs to the argininosuccinate synthase family. Type 1 subfamily.

Images



Western blot - Anti-ASS1 antibody [EPR12398] (HRP) (ab209018)

Anti-ASS1 antibody [EPR12398] (HRP) (ab209018) at 1/5000 dilution + Human Liver Tissue Lysate at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

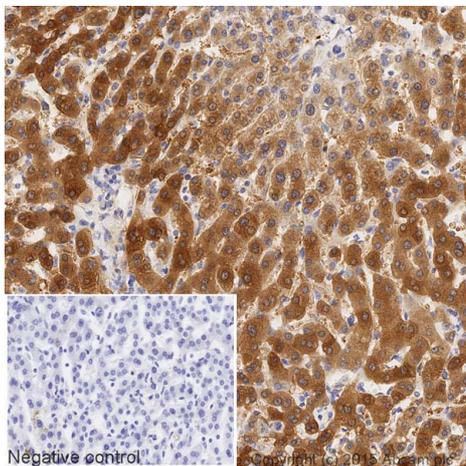
Predicted band size: 47 kDa

Observed band size: 47 kDa

Additional bands at: 105 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab209018 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASS1 antibody [EPR12398] (HRP) (ab209018)

IHC image of ASS1 staining in a section of formalin-fixed paraffin-embedded normal human liver tissue*, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab209018, 1/50 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*

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