

Product datasheet

Anti-CD39 antibody [EPR20627] ab223842

Recombinant RabMAb

★★★★★ [6 Abreviews](#) [7 References](#) [9 Images](#)

Overview

Product name	Anti-CD39 antibody [EPR20627]
Description	Rabbit monoclonal [EPR20627] to CD39
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal heart, fetal spleen, placenta and tonsil lysates; Mouse placenta, brain, heart and kidney lysates. IHC-P: Human colon carcinoma, spleen and liver tissues; Mouse spleen 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: 0.05% BSA, 40% Glycerol, PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20627
Isotype	IgG

Applications

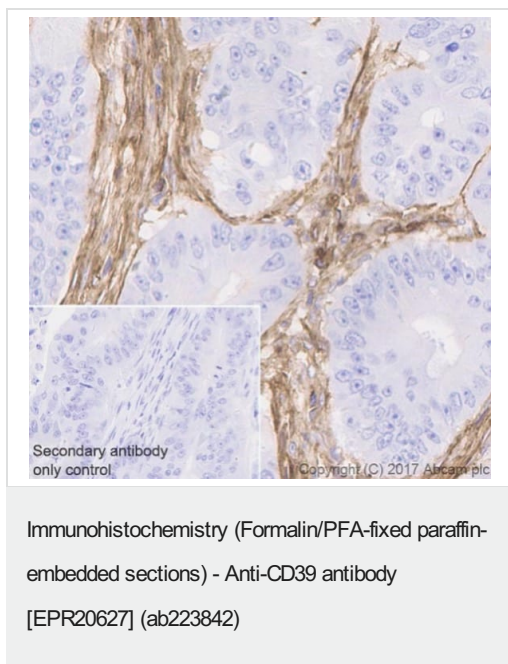
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab223842 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 78 kDa (predicted molecular weight: 57 kDa).
IHC-P	★★★★★ (5)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation. Hydrolyzes ATP and ADP equally well.
Tissue specificity	Expressed primarily on activated lymphoid cells. Also expressed in endothelial tissues. The vascular isoform and the placental isoform II are present in both placenta and umbilical vein, whereas placental isoform I is present in placenta only.
Sequence similarities	Belongs to the GDA1/CD39 NTPase family.
Post-translational modifications	The N-terminus is blocked. Palmitoylated in the N-terminal part.
Cellular localization	Membrane.
Form	There are 3 isoforms produced by alternative splicing.

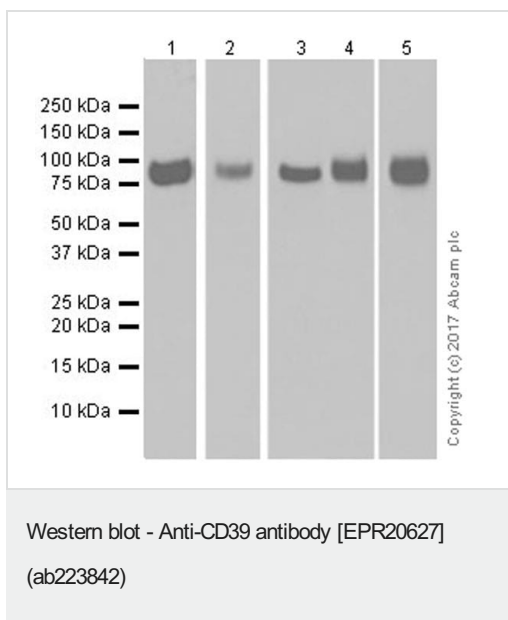
Images



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue labeling CD39 with ab223842 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on stromal cells of human colon carcinoma (PMID: 25403716). 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Lanes 1-2 : Anti-CD39 antibody [EPR20627] (ab223842) at 1/1000 dilution

Lanes 3-5 : Anti-CD39 antibody [EPR20627] (ab223842) at 1/10000 dilution

Lane 1 : Human fetal heart lysate

Lane 2 : Human placenta lysate

Lane 3 : Human fetal spleen lysate

Lane 4 : Human tonsil lysate

Lane 5 : Mouse placenta lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Developed using the ECL technique.

Predicted band size: 57 kDa

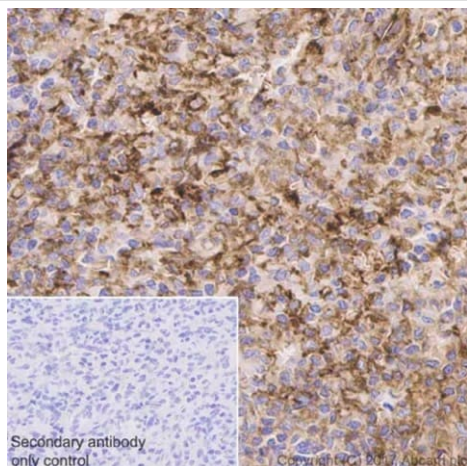
Observed band size: 78 kDa

Exposure time : Lane 1: 30 seconds; Lane 2: 3 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been

described in the literature (PMID: 18036594; PMID: 10636909).

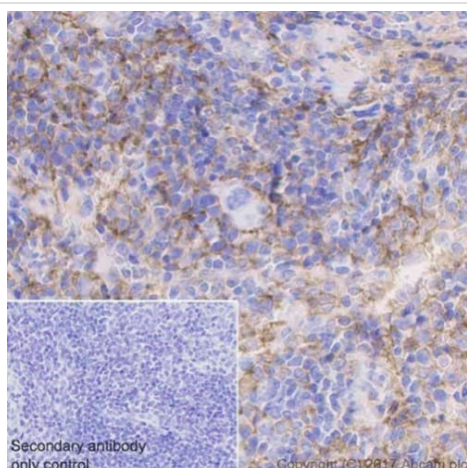


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR20627] (ab223842)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling CD39 with ab223842 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Membranous and cytoplasmic staining on human spleen (PMID: 22684996; PMID: 27532024). 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

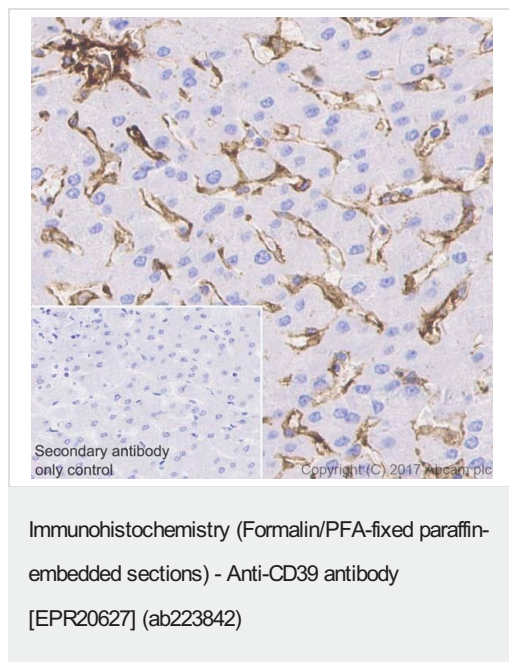


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR20627] (ab223842)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD39 with ab223842 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on mouse spleen (PMID: 22684996; PMID: 27532024). 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.

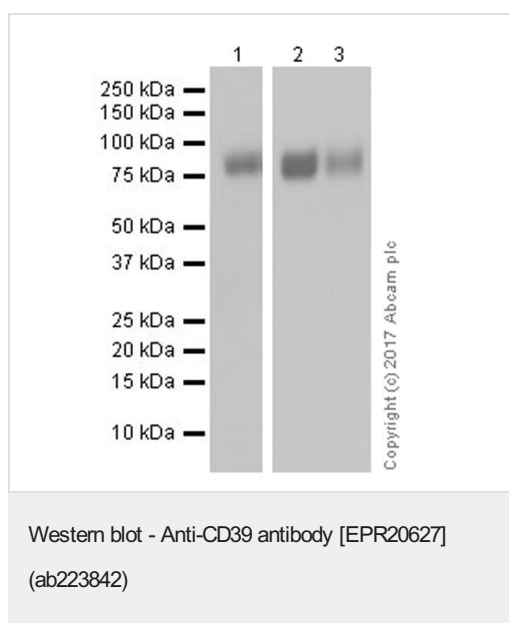
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded human liver tissue labeling CD39 with ab223842 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Membranous staining on endothelial cells of human liver (PMID: 18567823; PMID: 19308674). 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.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



All lanes : Anti-CD39 antibody [EPR20627] (ab223842) at 1/1000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Mouse heart lysate
Lane 3 : Mouse kidney lysate

Lysates/proteins at 20 µg per lane.

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

Developed using the ECL technique.

Predicted band size: 57 kDa
Observed band size: 78 kDa

Exposure times: Lane 1: 30 seconds; Lane 2: 3 seconds.

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 18036594; PMID: 10636909).

Tissue Microarray (TMA) data for ab223842			
Mouse normal tissue samples			
Mouse cardiac muscle	✗ (stromal cells ✓)	Mouse pancreas	✗ (stromal cells ✓)
Mouse cerebrum	✗ (stromal cells ✓)	Mouse skeletal muscle	✗ (stromal cells ✓)
Mouse colon	✗ (stromal cells ✓)	Mouse skin	✗
Mouse kidney	✗ (stromal cells ✓)	Mouse spleen	✓
Mouse liver	✗ (stromal cells ✓)	Mouse stomach	✗ (stromal cells ✓)
Mouse lung	✗ (stromal cells ✓)	Mouse testis	✗ (stromal cells ✓)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR20627] (ab223842)

Tissue Microarrays stained for "Anti-CD39 antibody [EPR20627]" using "ab223842" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab223842 at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

Tissue Microarray (TMA) data for ab223842			
Human normal tissue samples		Human malignant tissue samples	
Human cardiac muscle	✗	Human placenta	✗
Human cerebrum	✗ (stromal cells ✓)	Human skeletal muscle	✗ (stromal cells ✓)
Human colon	✗ (stromal cells ✓)	Human skin	✗ (stromal cells ✓)
Human endometrium	✗ (stromal cells ✓)	Human spleen	✓
Human kidney	✗ (stromal cells ✓)	Human stomach	✗ (stromal cells ✓)
Human liver	✗ (stromal cells ✓)	Human testis	✗ (stromal cells ✓)
Human lung	✗ (stromal cells ✓)	Human thyroid	✗ (stromal cells ✓)
Human mammary gland	✗ (stromal cells ✓)	Human tonsil	✓
Human pancreas	✗ (stromal cells ✓)		
		Clear cell carcinoma of human kidney	✗ (stromal cells ✓)
		Human astrocytoma	✗ (stromal cells ✓)
		Human bladder cancer	✗ (stromal cells ✓)
		Human breast carcinoma	✗ (stromal cells ✓)
		Human cervical carcinoma	✗ (stromal cells ✓)
		Human colon carcinoma	✗ (stromal cells ✓)
		Human endometrial carcinoma	✗ (stromal cells ✓)
		Human gastric adenocarcinoma	✗ (stromal cells ✓)
		Human hepatocellular carcinoma	✗ (stromal cells ✓)
		Human lung carcinoma	✗ (stromal cells ✓)
		Human ovarian carcinoma	✗ (stromal cells ✓)
		Human pancreatic carcinoma	✗ (stromal cells ✓)
		Human prostatic hyperplasia	✗ (stromal cells ✓)
		Human thyroid carcinoma	✗ (stromal cells ✓)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR20627] (ab223842)

Tissue Microarrays stained for "Anti-CD39 antibody [EPR20627]" using "ab223842" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab223842 at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

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-CD39 antibody [EPR20627] (ab223842)

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

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