

Product datasheet

Anti-xCT antibody [EPR8290(2)] ab175186

Recombinant RabMAb

★★★★★ [6 Abreviews](#) [96 References](#) [5 Images](#)

Overview

Product name	Anti-xCT antibody [EPR8290(2)]
Description	Rabbit monoclonal [EPR8290(2)] to xCT
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human xCT aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: Q9UPY5 (Peptide available as ab178606)
Positive control	WB: A549, HepG2, U87-MG and BxPC-3 cell lysates. Human, rat and mouse heart tissue lysates IP: HepG2 cells lysate.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR8290(2)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab175186 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	★★★★★ (4)	1/1000 - 1/10000. Predicted molecular weight: 55 kDa.
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Function Sodium-independent, high-affinity exchange of anionic amino acids with high specificity for anionic form of cystine and glutamate.

Sequence similarities Belongs to the amino acid-polyamine-organocation (APC) superfamily. L-type amino acid transporter (LAT) (TC 2.A.3.8) family.

Cellular localization Membrane.

Form xCT has a predicted molecular weight of 55 kDa; however it has a high number of hydrophobic residues which may affect the migration of the protein in SDS-PAGE. Endogenous monomeric xCT is expected to migrate at ~35 kDa and modified-xCT is expected to migrate at ~55 kDa (PMID: 17035536)

Images



Western blot - Anti-xCT antibody [EPR8290(2)] (ab175186)

All lanes : Anti-xCT antibody [EPR8290(2)] (ab175186) at 1/10000 dilution (Purified)

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysates

Lane 2 : Human heart lysates

Lane 3 : Mouse heart lysates

Lane 4 : Rat heart lysates

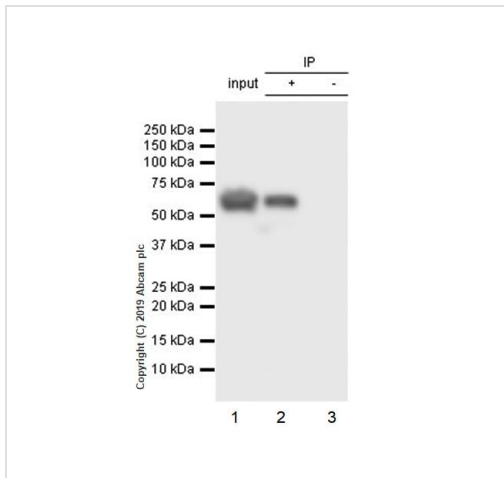
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 55 kDa

Observed band size: 55 kDa



Immunoprecipitation - Anti-xCT antibody
[EPR8290(2)] (ab175186)

ab175186 (purified) at 1:20 dilution (0.5µg) immunoprecipitating xCT in HepG2 whole cell lysate.

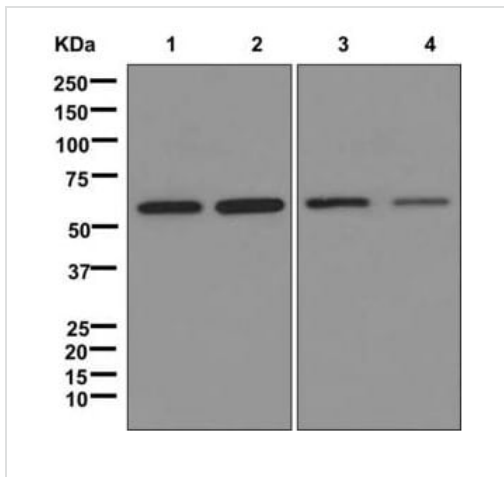
Lane 1 (input): HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab175186 & HepG2 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab175186 in HepG2 whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFD/MTBST.



Western blot - Anti-xCT antibody [EPR8290(2)]
(ab175186)

All lanes : Anti-xCT antibody [EPR8290(2)] (ab175186) at 1/1000 dilution

Lane 1 : A549 (Human lung carcinoma cell line) cell lysates

Lane 2 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysates

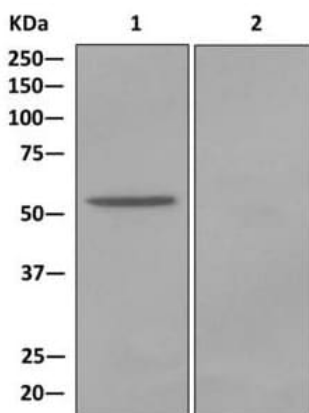
Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysates

Lane 4 : BxPC-3 (Human pancreas adenocarcinoma cell line) cell lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 55 kDa

This image was generated using the unpurified version of the product.



Western blot analysis on immunoprecipitation pellet from (Lane 1) HepG2 cells lysate or (Lane 2) 1 X PBS (negative control) using ab175186 at a 1/10 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

This image was generated using the unpurified version of the product.

Immunoprecipitation - Anti-xCT antibody
[EPR8290(2)] (ab175186)

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-xCT antibody [EPR8290(2)] (ab175186)

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

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