


Anti-Transglutaminase 2 antibody [CUB 7402] ab2386

敲除验证

★★★★★ 9 Abreviews 34 References 3 图像

概述

产品名称	Anti-Transglutaminase 2抗体[CUB 7402]
描述	小鼠单克隆抗体[CUB 7402] to Transglutaminase 2
宿主	Mouse
经测试应用	适用于: IHC-P, WB, ICC/IF, Flow Cyt
种属反应性	与反应: Mouse, Rabbit, Guinea pig, Cat, Dog, Human 预测可用于: Rat 
免疫原	Full length native protein (purified) corresponding to Transglutaminase 2. Purified from liver. Database link: P08587
表位	Epitope mapping for this antibody is amino acid 447-478
阳性对照	IHC-P: Human breast carcinoma tissue. WB: A549 whole cell lysate; HeLa whole cell lysate; Huvec whole cell lysate
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.3 Preservative: 0.05% Sodium azide Constituent: 1% BSA
纯度	IgG fraction
克隆	单克隆

克隆编号	CUB 7402
骨髓瘤	unknown
同种型	IgG1
轻链类型	unknown

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab2386于以下的经测试应用

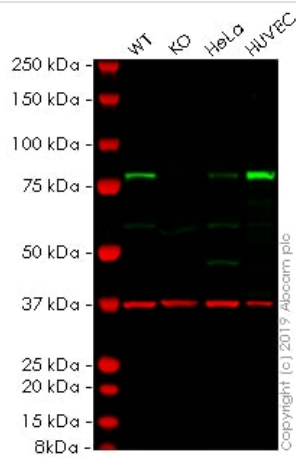
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (3)	1/50 - 1/75. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 77 kDa (predicted molecular weight: 77 kDa).
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration. PubMed: 19398782
Flow Cyt	★★★★★ (1)	1/10. Methanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.
序列相似性	Belongs to the transglutaminase superfamily. Transglutaminase family.

图片



Western blot - Anti-Transglutaminase 2 antibody
[CUB 7402] (ab2386)

All lanes : Anti-Transglutaminase 2 antibody [CUB 7402] (ab2386)
at 1 µg/ml

Lane 1 : Wild-type A549 (Human lung carcinoma cell line) whole
cell lysate

Lane 2 : TGM2 knockout A549 (Human lung carcinoma cell line)
whole cell lysate

Lane 3 : HeLa (Human epithelial cell line from cervix
adenocarcinoma) whole cell lysate

Lane 4 : HUVEC (Human umbilical vein endothelial cell line) whole
cell lysate

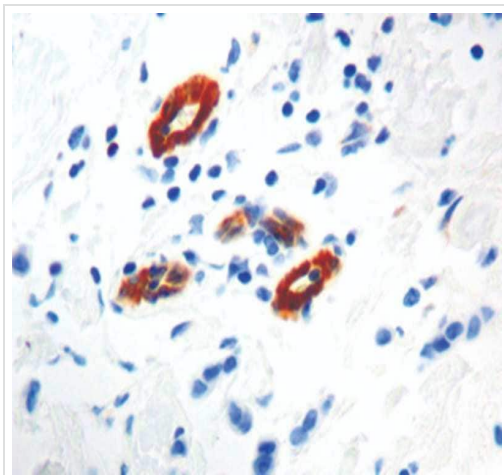
Lysates/proteins at 20 µg per lane.

Predicted band size: 77 kDa

Observed band size: 77 kDa

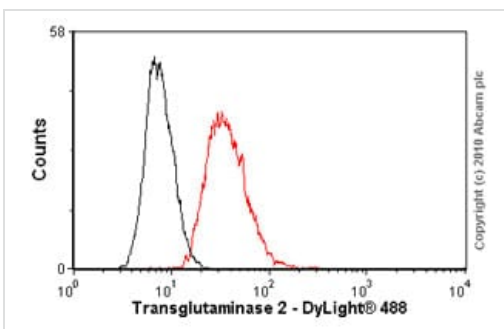
Lanes 1 - 4: Merged signal (red and green). Green - ab2386
observed at 77 kDa. Red - loading control, **ab181602**, observed at
37 kDa.

ab2386 was shown to recognize in wild-type A549 cells as signal
was lost at the expected MW in TGM2 knockout cells. Additional
cross-reactive bands were observed in the wild-type and knockout
cells. Wild-type and TGM2 knockout samples were subjected to
SDS-PAGE. The membrane was blocked with 3% Milk. Ab2386
and **ab181602** (Rabbit anti-GAPDH loading control) were
incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution
respectively. Blots were developed with Goat anti-Mouse IgG H&L
(IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG
H&L (IRDye® 680RD) preabsorbed **ab216777** secondary
antibodies at 1/20000 dilution for 1 hour at room temperature
before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Transglutaminase 2 antibody [CUB 7402] (ab2386)

Immunohistochemical analysis of human breast carcinoma tissue labeling Transglutaminase 2 with ab2386. Tissue was fixed with paraformaldehyde; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/50) for 30 minutes at 22°C.



Flow Cytometry - Anti-Transglutaminase 2 antibody [CUB 7402] (ab2386)

Overlay histogram showing HCT116 cells stained with ab2386 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2386, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in HCT116 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

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