abcam

Product datasheet

Anti-CD3 antibody ab16044

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概述

产品名称	Anti-CD3抗体
描述	**兔多克隆抗体**to CD3 epsilon
宿主	Rabbit
经测试应用	**适用于:** IP, WB **不适用于:** IHC
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human CD3 epsilon aa 150 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab16206**)
阳性对照	Recombinant Human CD3 epsilon protein (**ab114153**) can be used as a positive control in WB. This antibody gave a positive signal in Jurkat whole cells and thymus tissue from Mouse and Rat.
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
纯度	Immunogen affinity purified

克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab16044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。

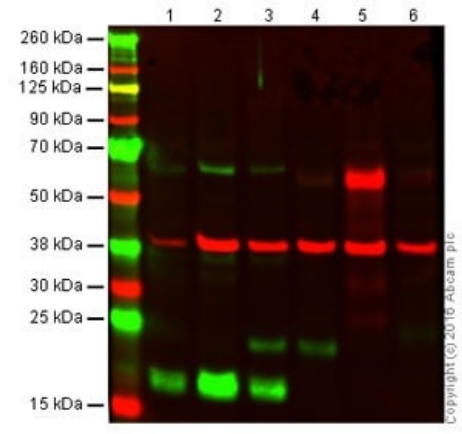
应用	Ab评论	说明
IP		Use a concentration of 5 µg/ml.
WB		Use a concentration of 0.5 µg/ml. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).

应用说明 Is unsuitable for IHC.

靶标

功能	The CD3 complex mediates signal transduction.
序列相似性	Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.
细胞定位	Membrane.

图片



Western blot - Anti-CD3 antibody (ab16044)

All lanes : Anti-CD3 antibody (ab16044) at 1 µg/ml

Lane 1 : THP1 whole cell lysate (-ve control)
Lane 2 : Raji whole cell lysate (-ve control)
Lane 3 : Jurkat whole cell lysate
Lane 4 : Human Thymus tissue lysate
Lane 5 : Mouse Thymus tissue lysate
Lane 6 : Rat Thymus tissue lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

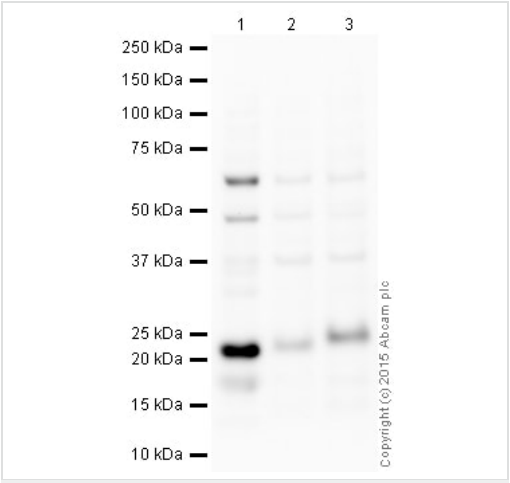
Performed under reducing conditions.

Predicted band size: 23 kDa

Observed band size: 23 kDa
Additional bands at: 17 kDa. We are unsure as to the identity of these extra bands.

Lanes 1 - 6: Merged signal (red and green). Green – ab16044 observed at 23 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

This blot was produced using a 4-12% Bis-tris gel under the MES 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 Licor blocking buffer before being incubated with ab16044 and **ab8245** (loading control) overnight at 4°C. Antibody binding was detected using Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at a 1:10000 dilution for 1hr at room temperature and then imaged.



Western blot - Anti-CD3 antibody (ab16044)

All lanes : Anti-CD3 antibody (ab16044) at 1 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate at 10 µg
Lane 2 : Thymus (Mouse) Tissue Lysate at 20 µg
Lane 3 : Thymus (Rat) Tissue Lysate at 20 µg

Secondary
All lanes : Anti-Rabbit IgG VHH Single Domain (HRP) (**ab191866**) at 1/50000 dilution

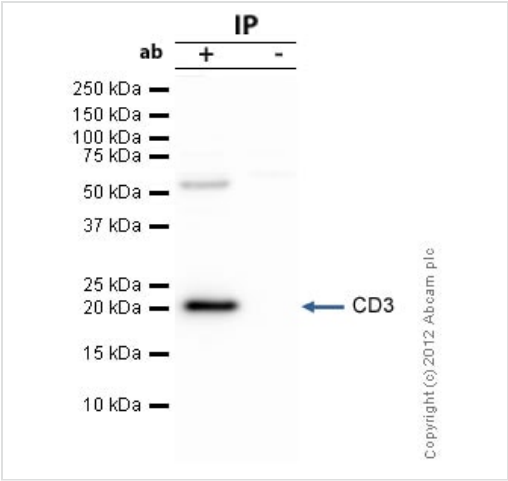
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 23 kDa
Additional bands at: 18 kDa, 48 kDa, 62 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 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 ab16044 overnight at 4°C. Antibody binding was detected using an anti-rabbit IgG VHH single domain antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



Immunoprecipitation - Anti-CD3 antibody (ab16044)

CD3 was immunoprecipitated using 0.5mg Jurkat whole cell extract, 5µg of Rabbit polyclonal to CD3 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab16044.
Secondary: Clean-Blot IP Detection Reagent (HRP) at 1/500 dilution.
Band: 23kDa; CD3

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