

Biotin Anti-Caspase-3 antibody [E87] ab195905

リコンビナント **RabMAb**

画像数 3

製品の概要

製品名	Biotin Anti-Caspase-3 antibody [E87]
製品の詳細	Biotin Rabbit monoclonal [E87] to Caspase-3
由来種	Rabbit
標識	Biotin
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Active Caspase-3 recombinant protein. IHC-P: Human normal tonsil (FFPE sections)
特記事項	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u> .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	E87
アイソタイプ	IgG

アプリケーション

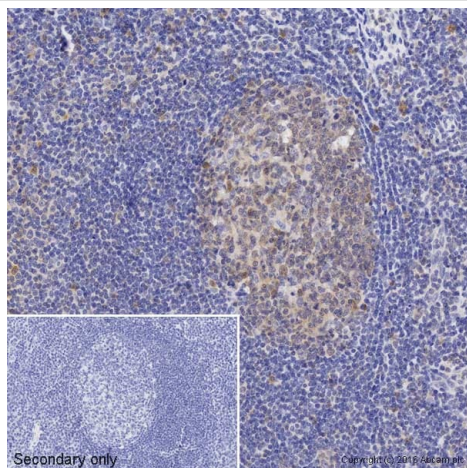
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab195905の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/10000. Detects a band of approximately 15 kDa (predicted molecular weight: 31 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能	Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Involved in the cleavage of huntingtin.
組織特異性	Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.
配列類似性	Belongs to the peptidase C14A family.
翻訳後修飾	Cleavage by granzyme B, caspase-6, caspase-8 and caspase-10 generates the two active subunits. Additional processing of the propeptides is likely due to the autocatalytic activity of the activated protease. Active heterodimers between the small subunit of caspase-7 protease and the large subunit of caspase-3 also occur and vice versa. S-nitrosylated on its catalytic site cysteine in unstimulated human cell lines and denitrosylated upon activation of the Fas apoptotic pathway, associated with an increase in intracellular caspase activity. Fas therefore activates caspase-3 not only by inducing the cleavage of the caspase zymogen to its active subunits, but also by stimulating the denitrosylation of its active site thiol.
細胞内局在	Cytoplasm.

画像

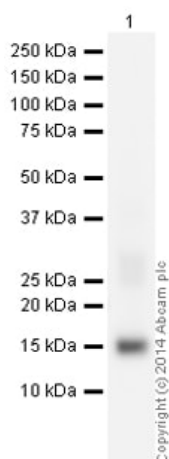


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-Caspase-3 antibody [E87] (ab195905)

IHC image of Caspase-3 staining in a section of formalin-fixed paraffin-embedded Human normal tonsil*, performed on a Leica BondTM. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins, before blocking of endogenous biotin using [ab64212](#). The section was then incubated with ab195905, 1/50 dilution, for 15 mins at room temperature and detected using an HRP conjugated ABC system. 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*



Western blot - Biotin Anti-Caspase-3 antibody [E87] (ab195905)

Biotin Anti-Caspase-3 antibody [E87] (ab195905) at 1/10000 dilution + Recombinant human Cleaved Caspase-3 protein (Active) ([ab52101](#)) at 0.1 µg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 15 kDa

Exposure time: 10 seconds

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 ab195905 overnight at 4°C. Antibody binding to the target was detected using a HRP conjugated streptavidin amplification step, and visualised using ECL development solution [ab133406](#).

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

Biotin Anti-Caspase-3 antibody [E87] (ab195905)

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