Product datasheet

Anti-Involucrin antibody ab53112

Overview

Product name Anti-Involucrin antibody
Description Rabbit polyclonal to Involucrin
Host species Rabbit
Specificity ab53112 detects endogenous levels of total Involucrin protein.
Tested applications Suitable for: ICC/IF, WB, IHC-P, ELISA
Species reactivity Reacts with: Human
Immunogen A synthetic peptide derived from human Involucrin.
Positive control Human breast carcinoma tissue and extracts from HuvEc cells.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
Without Mg+2 and Ca+2
Purity Immunogen affinity purified
Purification notes ab53112 was affinity purified from rabbit antiserum by affinity chromatography using epitope-specific immunogen.
Clonality Polyclonal
Isotype IgG

Applications

Our Abpromise guarantee covers the use of ab53112 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Part of the insoluble cornified cell envelope (CE) of stratified squamous epithelia.

**Tissue specificity**
Keratinocytes of epidermis and other stratified squamous epithelia.

**Sequence similarities**
Belongs to the involucrin family.

**Post-translational modifications**
Substrate of transglutaminase. Some glutamines and lysines are cross-linked to other involucrin molecules, to other proteins such as keratin, desmoplakin, periplakin and envoplakin, and to lipids like omega-hydroxy ceramide.

**Cellular localization**
Cytoplasm. Constituent of the scaffolding of the cornified envelope.

---

**Images**

ab53112 staining human skin sections by IHC-P. The tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed with citric acid pH 6. Blocking of the sample was done with 1% BSA for 10 minutes at 21°C, followed by staining with ab53112 at 1/150 in TBS/BSA/azide for 16h at 21°C. A biotinylated goat anti-rabbit polyclonal antibody at 1/200 was used as the secondary antibody.

---

**Application | Abreviews | Notes**
--- | --- | ---
ICC/IF | Use at an assay dependent concentration. PubMed: 21067603 |  
WB | 1/300 - 1/1000. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa). |  
IHC-P | Use at an assay dependent concentration. |  
ELISA | 1/20000. |  

---

**Target**

**Function**
Part of the insoluble cornified cell envelope (CE) of stratified squamous epithelia.

**Tissue specificity**
Keratinocytes of epidermis and other stratified squamous epithelia.

**Sequence similarities**
Belongs to the involucrin family.

**Post-translational modifications**
Substrate of transglutaminase. Some glutamines and lysines are cross-linked to other involucrin molecules, to other proteins such as keratin, desmoplakin, periplakin and envoplakin, and to lipids like omega-hydroxy ceramide.

**Cellular localization**
Cytoplasm. Constituent of the scaffolding of the cornified envelope.
**Western blot - Anti-Involucrin antibody (ab53112)**

- **All lanes:** Anti-Involucrin antibody (ab53112) at 1/300 dilution
- **Lane 1:** HuvEc cell extract
- **Lane 2:** HuvEc cell extract with immunising peptide

**Predicted band size:** 68 kDa  
**Observed band size:** 68 kDa

**Immunocytochemistry/Immunofluorescence - Anti-Involucrin antibody (ab53112)**

Immunofluorescence analysis of Human skin xenografts carrying either control GFP (left) or SHH retrovirus (right), staining Involucrin (red) with ab53112.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Involucrin antibody (ab53112)**

ab53112 at 1/50 dilution staining Involucrin in human breast carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence and presence of the immunising peptide.
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors