# abcam

### Product datasheet

# Anti-Desmoplakin I+II antibody [DP2.15] ab16434

## ★★★★★ 3 Abreviews 31 References

#### 概述

产**品名称** Anti-Desmoplakin I+II抗体[DP2.15]

**抽述** 小鼠单克隆抗体[DP2.15] to Desmoplakin I+II

**宿主** Mouse

经测试应用 适用于: WB, ICC, ICC/IF, IHC-Fr

不适用于: IHC-P

种属反应性 与反应: Mouse, Rat, Chicken, Cow, Human

免疫原 Full length protein (Cow).

**阳性**对照 Positive cell lines: Human A432 and MCF-7; Rat MH1C1; Bovine MDBK and BMGE. Stratified

epithelia, simple epithelia, including glands, urothelium, thymic reticular epithelium, hepatocytes,

intercalated disks of myocardium and arachnoid cells of meninges.

常规说明 Suitable for use in the detection of primary and metastatic carcinomas.

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. Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -

 $20\,^{\circ}\text{C}\,.$  Avoid freeze / thaw cycle.

**存储溶液** pH: 7.40

Preservative: 0.1% Sodium azide Constituents: PBS, 0.5% BSA

纯**度** Immunogen affinity purified

 克隆
 单克隆

 克隆编号
 DP2.15

 同种型
 IgG1

1

#### The Abpromise quarantee

#### Abpromise™承诺保证使用ab16434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
WB	<b>★★★★</b> <u>(1)</u>	Use at an assay dependent concentration.
ICC	<b>★★★★ (1)</b>	Use at an assay dependent concentration.
ICC/IF	*** <u>*</u>	Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

应用说明

Is unsuitable for IHC-P.

#### 靶标

功能 Major high molecular weight protein of desmosomes. Involved in the organization of the

desmosomal cadherin-plakoglobin complexes into discrete plasma membrane domains and in

the anchoring of intermediate filaments to the desmosomes.

组织特异性 Isoform DPI is apparently an obligate constituent of all desmosomes. Isoform DPI resides

predominantly in tissues and cells of stratified origin.

疾病相关 Keratoderma, palmoplantar, striate 2

Cardiomyopathy, dilated, with woolly hair and keratoderma

Arrhythmogenic right ventricular dysplasia, familial, 8

Skin fragility-woolly hair syndrome

Epidermolysis bullosa, lethal acantholytic

Cardiomyopathy, dilated, with woolly hair, keratoderma, and tooth agenesis

序列相似性 Belongs to the plakin or cytolinker family.

Contains 17 plectin repeats. Contains 1 SH3 domain.

Contains 6 spectrin repeats.

结构域 Its association with epidermal and simple keratins is dependent on the tertiary structure induced

by heterodimerization of these intermediate filaments proteins and most likely involves recognition

sites located in the rod domain of these keratins.

The N-terminal region is required for localization to the desmosomal plaque and interacts with the

N-terminal region of plakophilin 1.

The three tandem plakin repeat regions in the C-terminus mediate binding to intermediate

filaments.

翻译后修饰 Ser-2849 is probably phosphorylated by a cAMP-dependent protein kinase. Phosphorylation on

Ser-2849 probably affects its association with epidermal, simple cytokeratins and VIM

intermediate filaments.

Substrate of transglutaminase. Some glutamines and lysines are cross-linked to other

desmoplakin molecules, to other proteins such as keratin, envoplakin, periplakin and involucrin,

and to lipids like omega-hydroxyceramide (PubMed:9651377).

2

#### 细胞定位

Cell junction, desmosome. Cytoplasm, cytoskeleton. Cell membrane. Innermost portion of the desmosomal plaque. Colocalizes with epidermal KRT5-KRT14 and simple KRT8-KRT18 keratins and VIM intermediate filaments network (PubMed:12802069). Localizes at the intercalated disk in cardiomyocytes (By similarity).

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