

### Anti-Sumo 1 antibody ab5316

★★★★★ **1 Abreviews** **36 References**

#### 概述

|       |   |
|-------|---|
| 产品名称  | Anti-Sumo 1抗体   |
| 描述    | 兔多克隆抗体to Sumo 1   |
| 宿主    | Rabbit  |
| 经测试应用 | 适用于: WB   |
| 种属反应性 | 与反应: Arabidopsis thaliana   |
| 免疫原   | Recombinant full length protein corresponding to Arabidopsis thaliana Sumo 1 aa 1 to the C-terminus.<br>Database link: <a href="#">P55852</a>   |
| 阳性对照  | Arabidopsis extracts that have been heat treated for for 30-120 mins by moving them from 24 to 37 degrees C. Recombinant SUMO1 is detectable at concentrations as low as 5ng/ml.  |
| 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&amp;As</p> |

#### 性能

|      |   |
|------|---|
| 形式   | Liquid  |
| 存放说明 | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| 纯度   | Whole antiserum   |
| 克隆   | 多克隆   |
| 同种型  | IgG   |

#### 应用

The Abpromise guarantee

**Abpromise™** 承诺保证使用ab5316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 | ★★★★★ (1) | 1/1000. Predicted molecular weight: 12 kDa. |

## 靶标

|       |  |
|-------|--|
| 功能    | Ubiquitin-like protein that can be covalently attached to proteins as a monomer or a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by E3 ligases such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Polymeric SUMO1 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. May also regulate a network of genes involved in palate development. |
| 疾病相关  | Defects in SUMO1 are the cause of non-syndromic orofacial cleft type 10 (OFC10) [MIM:613705]; also called non-syndromic cleft lip with or without cleft palate 10. OFC10 is a birth defect consisting of cleft lips with or without cleft palate. Cleft lips are associated with cleft palate in two-third of cases. A cleft lip can occur on one or both sides and range in severity from a simple notch in the upper lip to a complete opening in the lip extending into the floor of the nostril and involving the upper gum. Note=A chromosomal aberration involving SUMO1 is the cause of OFC10. Translocation t(2;8)(q33.1;q24.3). The breakpoint occurred in the SUMO1 gene and resulted in haploinsufficiency confirmed by protein assays.   |
| 序列相似性 | Belongs to the ubiquitin family. SUMO subfamily.<br>Contains 1 ubiquitin-like domain.  |
| 翻译后修饰 | Cleavage of precursor form by SENP1 or SENP2 is necessary for function.<br>Polymeric SUMO1 chains undergo polyubiquitination by RNF4.  |
| 细胞定位  | Nucleus membrane. Nucleus speckle. Cytoplasm. Recruited by BCL11A into the nuclear body.   |

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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