

### Anti-CLASP2 antibody [KT68] ab95373

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#### 概述

产品名称	Anti-CLASP2抗体[KT68]
描述	大鼠单克隆抗体[KT68] to CLASP2
宿主	Rat
经测试应用	适用于: IHC-P
种属反应性	与反应: Mouse
免疫原	Recombinant fragment corresponding to Human CLASP2 aa 50-900 (N terminal). Database link: <a href="#">O75122</a>
阳性对照	This antibody gave a positive result in IHC in the following FFPE tissue: Mouse Brain.
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. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	KT68
同种型	IgG2b

#### 应用

The Abpromise guarantee

[Abpromise™](#) 承诺保证使用ab95373于以下的经测试应用

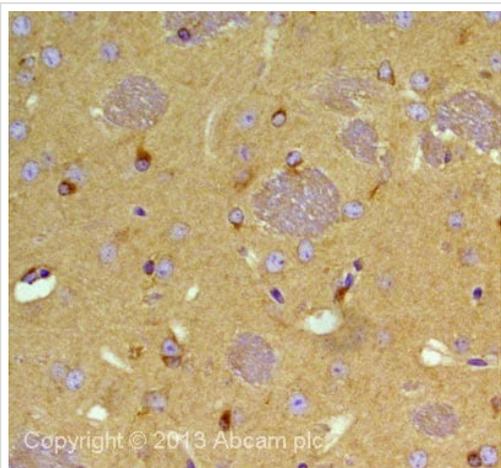
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## 靶标

<b>功能</b>	Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules (PubMed:26003921). Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2 (PubMed:16824950). This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle (PubMed:16866869, PubMed:16914514). Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.
<b>组织特异性</b>	Brain-specific.
<b>序列相似性</b>	Belongs to the CLASP family. Contains 8 HEAT repeats.
<b>结构域</b>	The two SXIP sequence motifs mediate interaction with MAPRE1; this is necessary for targeting to growing microtubule plus ends. Two TOG regions display structural characteristics similar to HEAT repeat domains and mediate interaction with microtubules.
<b>翻译后修饰</b>	Phosphorylated by GSK3B. Phosphorylation reduces MAPRE1 binding (PubMed:26003921). Phosphorylation by GSK3B may negatively regulate binding to microtubule lattices in lamella.
<b>细胞定位</b>	Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Golgi apparatus. Golgi apparatus, trans-Golgi network. Cell membrane. Cell projection, ruffle membrane. Localizes to microtubule plus ends (PubMed:15631994). Localizes to centrosomes, kinetochores and the mitotic spindle from prometaphase. Subsequently localizes to the spindle midzone from anaphase and to the midbody from telophase (PubMed:16866869, PubMed:16914514). In migrating cells localizes to the plus ends of microtubules within the cell body and to the entire microtubule lattice within the lamella. Localizes to the cell cortex and this requires ERC1 and PHLDB2 (PubMed:16824950). The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane.

## 图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLASP2 antibody [KT68] (ab95373)

IHC image of CLASP2 staining in Mouse Brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab95373, 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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.

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