### Overview

**Product name** | Anti-KIF4A/KIF4 antibody  
**Description** | Rabbit polyclonal to KIF4A/KIF4  
**Host species** | Rabbit  
**Tested applications** | Suitable for: ICC/IF, WB, IHC-P  
**Species reactivity** | Reacts with: Human  
**Immunogen** | Recombinant fragment corresponding to Human KIF4A/KIF4 aa 994-1075.  
**Sequence:**  
| LTLOVASRQKHLPTDLLSPDFSEY/PPPKPSRVKEK  
| FLEQSWMDIDED  
| LKYCSEHSVNEHGDGDDEGDDEEWKPTKL  

Database link: [O95239](#)

**Positive control** | WB: RT-4 and U-251 MG cell lysates  
| IHC-P: Human bone marrow tissue  
| ICC/IF: Human cell line U-2 OS  

**General notes**  
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

### Properties

**Form** | Liquid  
**Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.  
**Storage buffer** | pH: 7.20  
| Preservative: 0.02% Sodium azide  
| Constituents: 59% PBS, 40% Glycerol  
**Purity** | Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

The Abpromise guarantee covers the use of ab122227 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 0.25 - 2 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.04 - 0.4 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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Target

Function: Motor protein that translocates PRC1 to the plus ends of interdigitating spindle microtubules during the metaphase to anaphase transition, an essential step for the formation of an organized central spindle midzone and midbody and for successful cytokinesis. May play a role in mitotic chromosomal positioning and bipolar spindle stabilization.

Tissue specificity: Highly expressed in hematopoietic tissues, fetal liver, spleen, thymus and adult thymus and bone marrow. Lower levels are found in heart, testis, kidney, colon and lung.


Images
**Western blot** - Anti-KIF4A/KIF4 antibody (ab122227) at 1/250 dilution

*All lanes*: Anti-KIF4A/KIF4 antibody (ab122227) at 1/250 dilution

*Lane 1*: RT-4 cell lysate

*Lane 2*: U-251 MG cell lysate

*Lane 3*: Human plasma lysate

*Lane 4*: Human liver lysate

*Lane 5*: Human tonsil lysate

**Immunohistochemistry** (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIF4A/KIF4 antibody (ab122227)

ab122227, at a 1/300 dilution, staining KIF4A/KIF4 in paraffin embedded Human bone marrow tissue by Immunohistochemistry.

**Immunocytochemistry/ Immunofluorescence** - Anti-KIF4A/KIF4 antibody (ab122227)

Immunofluorescent staining of human cell line U-2 OS shows positivity in nucleus but not nucleoli using ab122227.

**Recommended conditions:**

Fixation/Permeabilization: PFA/Triton X-100
Immunohistochemical staining of Human bone marrow shows strong nuclear positivity in hematopoietic cells using ab122227.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIF4A/KIF4 antibody (ab122227)

ab122227, at 4 µg/ml, staining KIF4A/KIF4 in Human cell line U-2 OS by Immunofluorescence. Antibody staining is shown in green.

Immunocytochemistry/ Immunofluorescence - Anti-KIF4A/KIF4 antibody (ab122227)

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

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