


## Product datasheet

### Anti-N WASP antibody [EPR6959] ab126626

KO VALIDATED Recombinant RabMAb

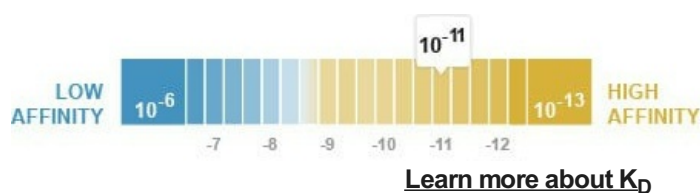
★★★★★ 2 Abreviews 13 References 10 Images

#### Overview

|                     |   |
|---------------------|---|
| Product name        | Anti-N WASP antibody [EPR6959]  |
| Description         | Rabbit monoclonal [EPR6959] to N WASP   |
| Host species        | Rabbit  |
| Tested applications | <b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF  |
| Species reactivity  | <b>Reacts with:</b> Mouse, Human<br><b>Predicted to work with:</b> Pig    |
| Immunogen           | Synthetic peptide within Human N WASP aa 300-450. The exact sequence is proprietary.  |
| Positive control    | NIH 3T3, F9, L929, HeLa and K562 cell lysates; Human papillary carcinoma tissue.  |
| General notes       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> |

#### 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. Stable for 12 months at -20°C. |
| Dissociation constant (K <sub>D</sub> ) | K <sub>D</sub> = 7.40 x 10 <sup>-11</sup> M   |



|                |          |
|----------------|----------|
| Storage buffer | pH: 7.20 |
|----------------|----------|

|                     |  |
|---------------------|--|
|                     | Preservative: 0.01% Sodium azide                                     |
|                     | Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA |
| <b>Purity</b>       | Protein A purified   |
| <b>Clonality</b>    | Monoclonal   |
| <b>Clone number</b> | EPR6959  |
| <b>Isotype</b>      | IgG  |

## Applications

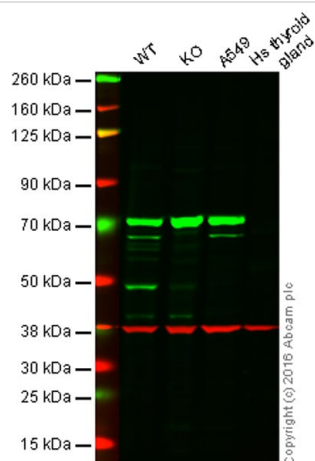
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab126626 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application             | Abreviews | Notes  |
|-------------------------|-----------|--|
| <b>Flow Cyt (Intra)</b> |           | Use at an assay dependent concentration. Purified format   |
| <b>WB</b>               | ★★★★★ (1) | 1/1000 - 1/10000. Detects a band of approximately 65 kDa (predicted molecular weight: 55 kDa).                               |
| <b>IHC-P</b>            | ★★★★★ (1) | 1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| <b>ICC/IF</b>           |           | 1/300. <b>For unpurified, use 1/50 - 1/100.</b>  |

## Target

|                              |  |
|------------------------------|--|
| <b>Function</b>              | Regulates actin polymerization by stimulating the actin-nucleating activity of the Arp2/3 complex. Binds to HSF1/HSTF1 and forms a complex on heat shock promoter elements (HSE) that negatively regulates HSP90 expression. |
| <b>Sequence similarities</b> | Contains 1 CRIB domain.<br>Contains 1 WH1 domain.<br>Contains 2 WH2 domains.   |
| <b>Cellular localization</b> | Cytoplasm > cytoskeleton. Nucleus. Preferentially localized in the cytoplasm when phosphorylated and in the nucleus when unphosphorylated.   |

## Images



Western blot - Anti-N WASP antibody [EPR6959] (ab126626)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

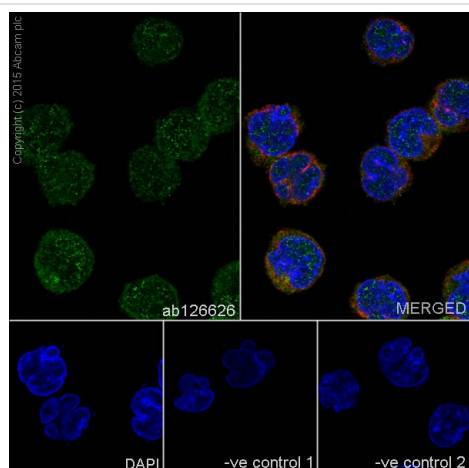
**Lane 2:** N WASP knockout HAP1 cell lysate (20 µg)

**Lane 3:** A549 cell lysate (20 µg)

**Lane 4:** Human thyroid tissue lysate (20 µg)

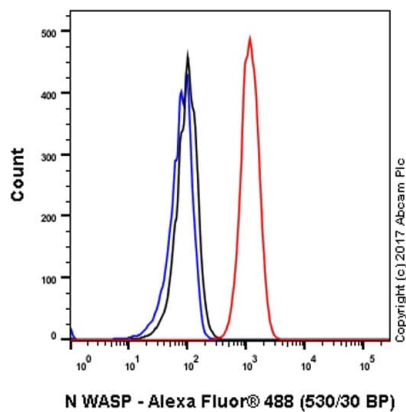
**Lanes 1 - 4:** Merged signal (red and green). Green - ab126626 observed at 67 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab126626 was shown to recognize N WASP when N WASP knockout samples were used, along with additional cross-reactive bands. Wild-type and N WASP knockout samples were subjected to SDS-PAGE. ab126626 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



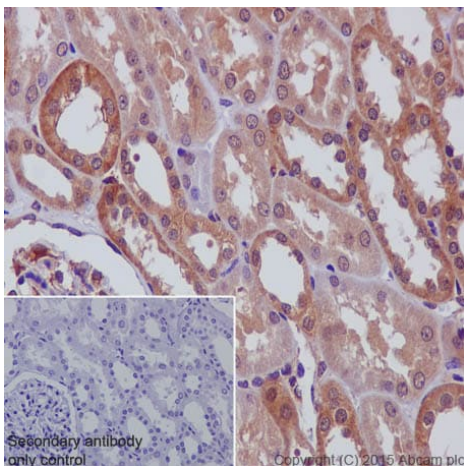
Immunocytochemistry/ Immunofluorescence - Anti-N WASP antibody [EPR6959] (ab126626)

Immunofluorescence staining of K562 cells with purified ab126626 at a working dilution of 1/300, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor® 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab126626 was used at a dilution of 1/500 followed by an Alexa Fluor® 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor® 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



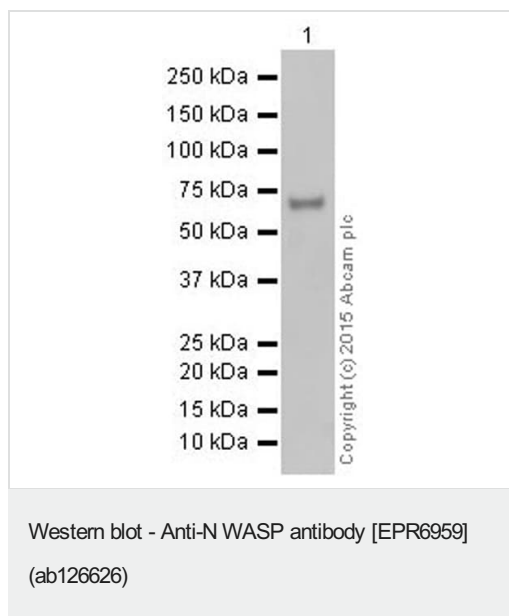
Flow Cytometry (Intracellular) - Anti-N WASP antibody [EPR6959] (ab126626)

Intracellular Flow Cytometry analysis of K562 (human chronic myelogenous leukemia) cells labeling N WASP with purified ab126626 at 1/150 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody. Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N WASP antibody [EPR6959] (ab126626)

Immunohistochemical staining of paraffin embedded human kidney with purified ab126626 at a working dilution of 1/100. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



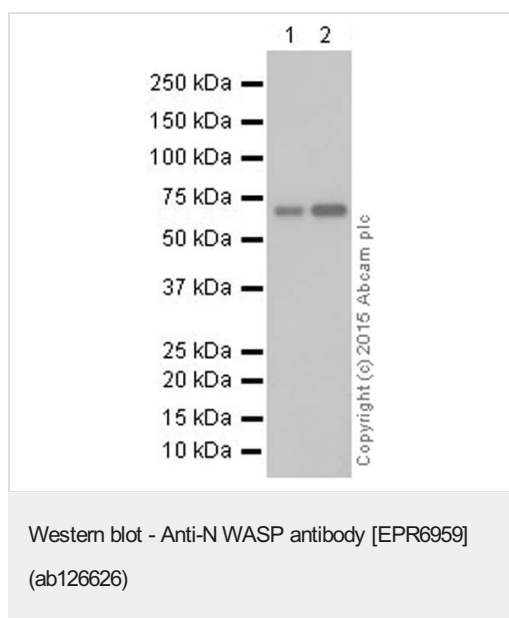
Anti-N WASP antibody [EPR6959] (ab126626) at 1/10000 dilution  
(purified) + L929 whole cell lysate at 10 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 55 kDa

**Observed band size:** 65 kDa



**All lanes :** Anti-N WASP antibody [EPR6959] (ab126626) at 1/10000 dilution (purified)

**Lane 1 :** HeLa whole cell lysate

**Lane 2 :** K562 whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

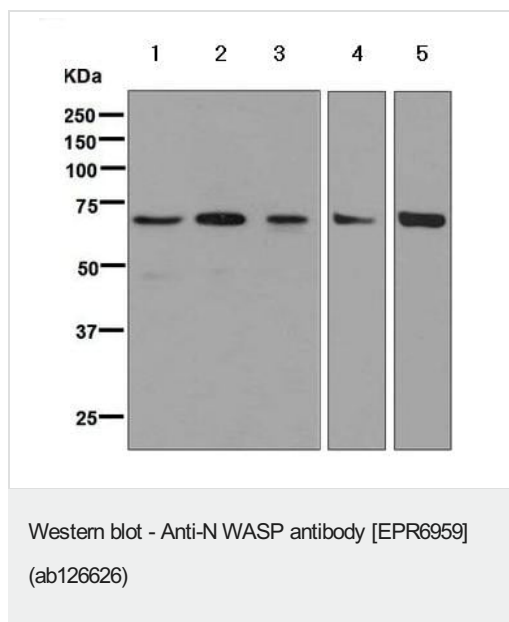
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 55 kDa

**Observed band size:** 65 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



**All lanes :** Anti-N WASP antibody [EPR6959] (ab126626) at 1/1000 dilution (Unpurified)

**Lane 1 :** NIH 3T3 cell lysate

**Lane 2 :** F9 cell lysate

**Lane 3 :** L929 cell lysate

**Lane 4 :** HeLa cell lysate

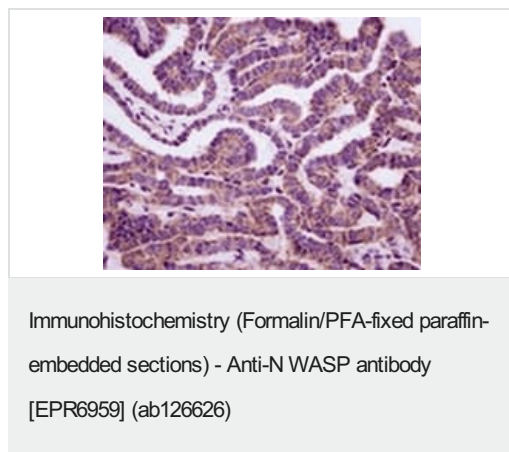
**Lane 5 :** K562 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

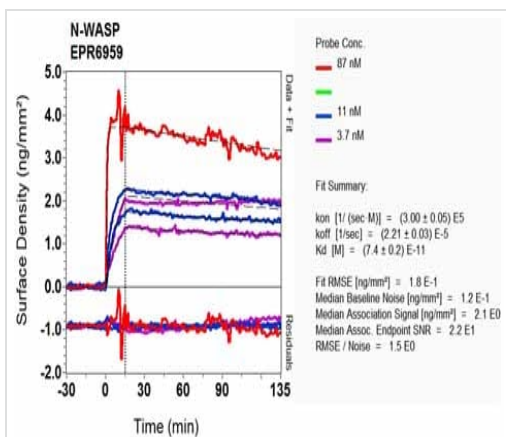
**All lanes :** Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

**Predicted band size:** 55 kDa



Unpurified ab126626, at 1/50, staining N WASP in formalin fixed, paraffin embedded human papillary carcinoma tissue by Immunohistochemistry

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



OI-RD Scanning - Anti-N Wasp antibody

[EPR6959] (ab126626)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?



**Research with confidence**  
 Consistent and reproducible results



**Long-term and scalable supply**  
 Recombinant technology



**Success from the first experiment**  
 Confirmed specificity



**Ethical standards compliant**  
 Animal-free production

Anti-N Wasp antibody [EPR6959] (ab126626)

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