

## Product datasheet

# Anti-NKG2A antibody [EPR23737-127] ab260035

Recombinant RabMAb

[1 References](#) [8 Images](#)

### Overview

<b>Product name</b>	Anti-NKG2A antibody [EPR23737-127]
<b>Description</b>	Rabbit monoclonal [EPR23737-127] to NKG2A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), IHC-P, mIHC, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK-293 transfected with NKG2A (WT) expression vector containing a myc-His-tag, whole cell lysate. IHC-P: Human tonsil, gastric cancer, NK cell lymphoma tissues and HEK-293 transfected with NKG2A expression vector containing a myc-His-tag <sup>®</sup> . Flow Cyt (intra): Human peripheral blood mononuclear cells. mIHC: Human endometrium tissue.
<b>General notes</b>	<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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR23737-127

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab260035 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
Flow Cyt (Intra)		1/500.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
mIHC		1/2000.
WB		1/1000. Predicted molecular weight: 26 kDa.

## Target

### Function

Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.

### Tissue specificity

Natural killer cells.

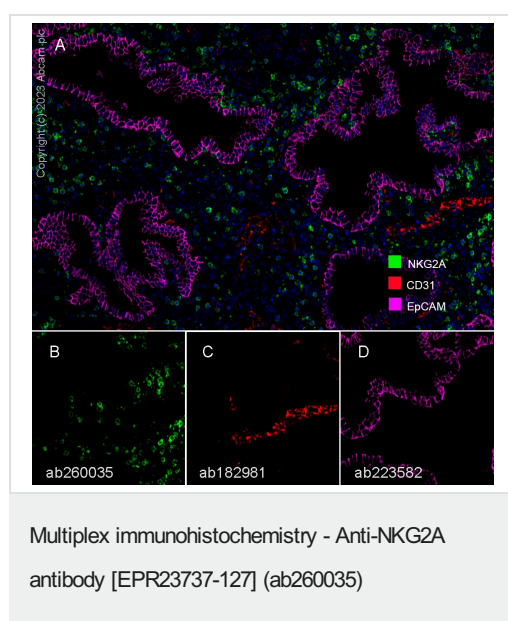
### Sequence similarities

Contains 1 C-type lectin domain.

### Cellular localization

Membrane.

## Images



Fluorescence multiplex immunohistochemical analysis of the human endometrium (Formalin/PFA-fixed paraffin-embedded sections).

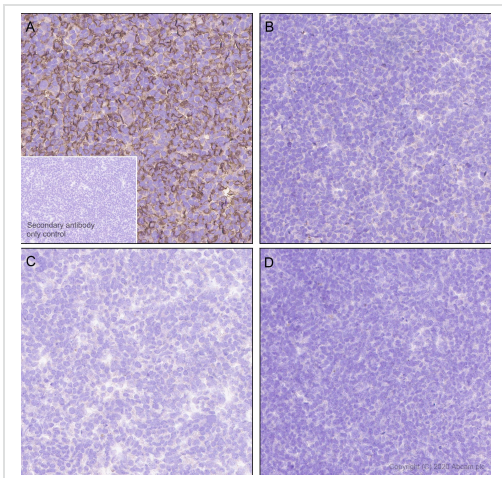
Panel A: merged staining of anti-EpCAM (**ab223582**, magenta; Opal™690), anti-NKG2A (ab260035, green; Opal™520) and anti-CD31 (**ab182981**, red; Opal™570) on human endometrium. Panel B: anti-NKG2A stained on NK cells. Panel C: anti-CD31 stained on endothelial cells. Panel D: anti-EpCAM stained on glandular cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of **ab223582** at 1/500 dilution (1.008 µg/ml), ab260035 at 1/2000 dilution (0.262 µg/ml) and **ab182981** at 1/4000 dilution (0.137 µg/ml) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition

was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain.



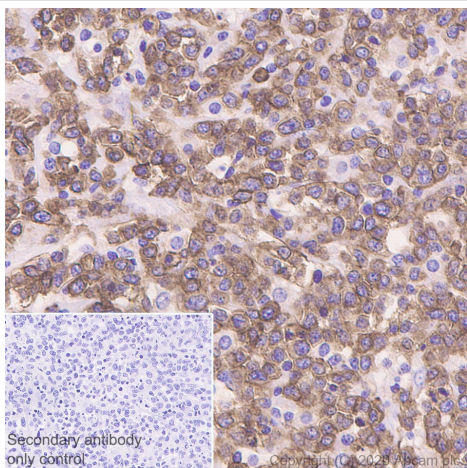
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NKG2A antibody [EPR23737-127] (ab260035)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of HEK-293 tissue labelling (A) - HEK-293 transfected with NKG2A expression vector containing a myc-His-tag®, (B) - HEK-293 transfected with NKG2C expression vector containing a myc-His-tag®, (C) - HEK-293 transfected with NKG2E expression vector containing a myc-His-tag® whole cell pellets and (D) - HEK-293 transfected with an empty vector with ab260035 at 1/200 dilution. Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins, Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Positive staining on (A) HEK-293 transfected with NKG2A expression vector containing a myc-His-tag®, whole cell pellet. No staining on (B) HEK-293 transfected with NKG2C expression vector containing a myc-His-tag®, whole cell pellet and (C) HEK-293 transfected with NKG2E expression vector containing a myc-His-tag®, whole cell pellet. and (D) HEK-293 transfected with an empty vector.

The section was incubated with ab260035 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

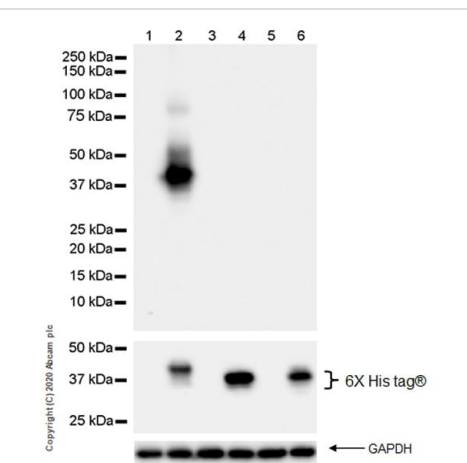


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NKG2A antibody [EPR23737-127] (ab260035)

Immunohistochemical analysis of paraffin-embedded Human NK cell lymphoma tissue labeling NKG2A with ab260035 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human NK cell lymphoma (PMID: 11222501). The section was incubated with ab260035 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Western blot - Anti-NKG2A antibody [EPR23737-127] (ab260035)

**All lanes** : Anti-NKG2A antibody [EPR23737-127] (ab260035) at 1/5000 dilution

**Lanes 1 & 3 & 5** : HEK-293 (human embryonic kidney) transfected with an empty vector (vector control), containing a myc-His-tag<sup>®</sup>, whole cell lysate

**Lane 2** : HEK-293 transfected with NKG2A (WT) expression vector containing a myc-His-tag<sup>®</sup>, whole cell lysate

**Lane 4** : HEK-293 transfected with NKG2C (WT) expression vector containing a myc-His-tag<sup>®</sup>, whole cell lysate

**Lane 6** : HEK-293 transfected with NKG2E (WT) expression vector containing a myc-His-tag<sup>®</sup>, whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

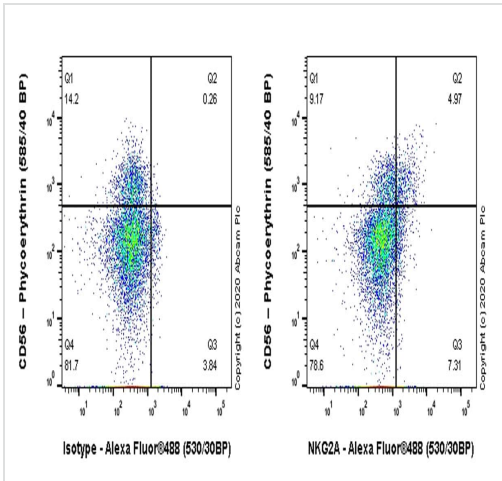
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

**Predicted band size:** 26 kDa

**Observed band size:** 38 kDa

Blocking and diluting buffer and concentration: 5% NFD/MTBST.

Exposure time: 3 seconds.

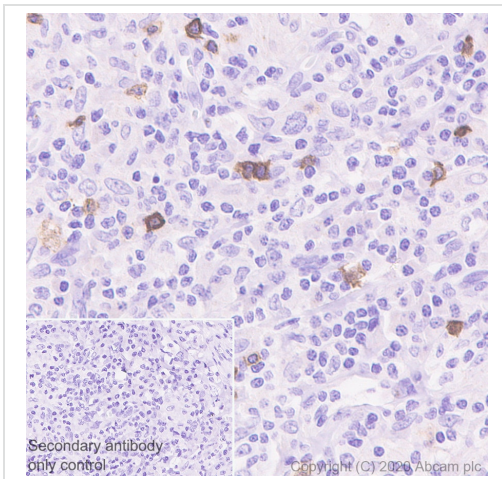


Flow Cytometry (Intracellular) - Anti-NKG2A antibody [EPR23737-127] (ab260035)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed, 0.1% Tween-20 permeabilized Human peripheral blood mononuclear cell (PBMC) cells labelling NKG2A with ab260035 at 1/500 dilution (0.1 ug) Right compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left).

A Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with anti-CD56 conjugated to PE, then fixed with 2% PFA followed by intracellularly stained with rabbit IgG (Left) or ab260035 (Right).

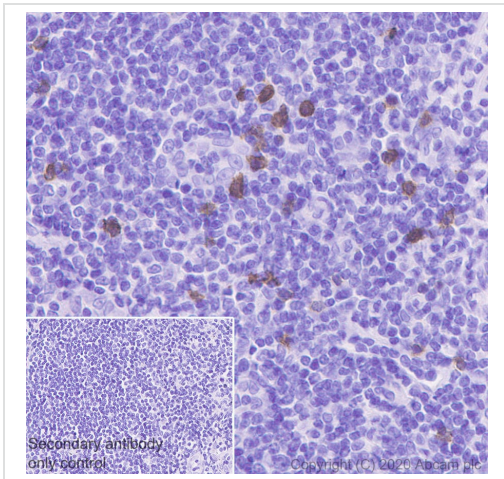


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NKG2A antibody [EPR23737-127] (ab260035)

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue labeling NKG2A with ab260035 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human gastric cancer (PMID: 11222501). The section was incubated with ab260035 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NKG2A antibody [EPR23737-127] (ab260035)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling NKG2A with ab260035 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human tonsil (PMID: 11222501). The section was incubated with ab260035 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-NKG2A antibody [EPR23737-127] (ab260035)

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

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