Product datasheet

Anti-NKG2A + NKG2E + NKG2C antibody [EPR22137]  
ab224699

Overview

Product name: Anti-NKG2A + NKG2E + NKG2C antibody [EPR22137]
Description: Rabbit monoclonal [EPR22137] to NKG2A + NKG2E + NKG2C
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Recombinant fragment within Human NKG2A aa 100 to the C-terminus. The exact sequence is proprietary.
General notes: This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production
For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Properties

Form: Liquid
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR22137
**Isotype**  
IgG

**Applications**

Our **Abpromise guarantee** covers the use of ab224699 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<td>WB</td>
<td>1/1000. Detects a band of approximately 34-38 kDa (predicted molecular weight: 26 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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**Target**

**Cellular localization**  
NKG2A: Membrane. NKG2E: Membrane. NKG2C: Membrane.

**Images**

Immunohistochemical analysis of paraffin-embedded human natural killer-cell lymphoma tissue labeling NKG2A + NKG2E + NKG2C with ab224699 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Membranous and cytoplasmic staining on human natural killer-cell lymphoma is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
All lanes: Anti-NKG2A + NKG2E + NKG2C antibody [EPR22137] (ab224699) at 1/1000 dilution

Lanes 1 & 3 & 5: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with an empty vector (vector control), whole cell lysate with 5% NFDM/TBST
Lane 2: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with human His-tagged NKG2A (aa1-233) expression vector, whole cell lysate with 5% NFDM/TBST
Lane 4: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with human His-tagged NKG2C (aa1-231) expression vector, whole cell lysate with 5% NFDM/TBST
Lane 6: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with human His-tagged NKG2E (aa1-240) expression vector, whole cell lysate with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

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

Predicted band size: 26 kDa
Observed band size: 37 kDa
why is the actual band size different from the predicted?

Exposure time: 180 seconds

Compared with NKG2A, ab224699 has lower affinity with NKG2C and 2E.
Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling NKG2A + NKG2E + NKG2C with ab224699 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Membranous and cytoplasmic staining on a subset of immune cells in human endometrium is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Anti-NKG2A + NKG2E + NKG2C antibody [EPR22137] (ab224699) at 1/1000 dilution + NK-92 (human peripheral blood malignant non-Hodgkin’s lymphoma cell line) whole cell lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 26 kDa

**Observed band size:** 34-38 kDa why is the actual band size different from the predicted?

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.

This blot was developed using a higher sensitivity ECL substrate.

Multiple bands are likely due to isoforms and glycosylation. The molecular profile/weight observed is consistent with what has been described in the literature (PMID: 9034158).

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