Product Datasheet

Adenosine A2aR Antibody (7F6-G5-A2)
NBP1-39474

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Publications: 12

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Updated 11/18/2019 v.20.1

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### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 ml</th>
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<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
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<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
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<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
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<tr>
<td><strong>Clone</strong></td>
<td>7F6-G5-A2</td>
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<tr>
<td><strong>Preservative</strong></td>
<td>0.05% Sodium Azide</td>
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<tr>
<td><strong>Isotype</strong></td>
<td>IgG2a</td>
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<tr>
<td><strong>Purity</strong></td>
<td>Protein G purified</td>
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<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
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<tr>
<td><strong>Target Molecular Weight</strong></td>
<td>43 kDa</td>
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### Product Description

**Host**
Mouse

**Gene ID**
135

**Gene Symbol**
ADORADA2A

**Species**
Human, Mouse, Rat, Porcine, Canine, Guinea Pig, Rabbit, Sheep

**Reactivity Notes**
Sheep reactivity reported in scientific literature (PMID: 29791204). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.

**Immunogen**
Full length recombinant human Adenosine A2a R. [UniProt# P29274]

### Product Application Details

**Applications**
Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready

**Recommended Dilutions**
Western Blot 1:1000, Flow Cytometry 1 - 5 ug/mL, Immunohistochemistry 1 - 5 ug/mL, Immunocytochemistry/Immunofluorescence 1:50 - 1:100, Immunohistochemistry-Paraffin 1 - 5 ug/mL, Immunohistochemistry-Frozen, Flow (Intracellular), CyTOF-ready

**Application Notes**
ICC usage is reported in scientific literature (PMID: 25836920). Use in IHC-frozen sections reported in scientific literature (PMID 9822147).
Western Blot: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Total protein from mouse brain was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/mL anti-Adenosine A2a R (7F6-G5-A2) in 1% milk, and detected with an anti-mouse HRP secondary antibody using chemiluminescence.

Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Neuro2a cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Adenosine A2a R (7F6-G5-A2), NBP1-39474, at a 1:50 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Flow Cytometry: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Using the PE direct conjugate An intracellular stain was performed on SH-SY5Y cells with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474PE (blue) and a matched isotype control NB600-986PE (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin (PE).

Immunohistochemistry-Paraffin: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Staining of human brain (putamen), antibody at 5 ug/mL.
Immunohistochemistry-Paraffin: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Analysis of a FFPE tissue section of mouse brain using Adenosine A2a R antibody (clone 7F6-G5-A2) at 1:400 dilution. The antibody generated nice membranous / punctate staining of Adenosine A2a receptors.

Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Adenosine A2a R (7F6-G5-A2), NBP1-39474, at a 1:50 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Flow Cytometry: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - An intracellular stain was performed on U-87 MG cells with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474F (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to FITC.

Immunohistochemistry-Paraffin: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - Analysis of a FFPE tissue section of mouse brain using Adenosine A2a R antibody (clone 7F6-G5-A2) at 1:100 dilution. The antibody generated nice membranous / punctate staining of Adenosine A2a receptors.
Flow (Intracellular): Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - An intracellular stain was performed on hPBMCs with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474 and a matched isotype control NBP2-14864. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).

Flow (Intracellular): Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - An intracellular stain was performed on U-937 cells with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) PE-conjugated secondary antibody (F0102B, R&D Systems).

Flow (Intracellular): Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - An intracellular stain was performed on U-937 cells with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin (PE).

Flow (Intracellular): Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] - An intracellular stain was performed on U-937 cells with Adenosine A2a R (7F6-G5-A2) antibody NBP1-39474APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin (APC).
Flow Cytometry: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] -
An intracellular stain was performed on SH-SY5Y with Adenosine A2aR Antibody (7F6-G5-A2) NBP1-39474 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Mouse F(ab)2 IgG (H+L) PE-conjugated Antibody (R&D Systems, F0102B).

Flow Cytometry: Adenosine A2aR Antibody (7F6-G5-A2) [NBP1-39474] -
An intracellular stain was performed on U-937 cells with Adenosine A2aR (7F6-G5-A2) antibody NBP1-39474F (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to FITC.
<table>
<thead>
<tr>
<th>References</th>
<th>Details</th>
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<tr>
<td>Hirata Y, Furuhashi K, Ishii H et al. CD150(high) Bone Marrow Tregs Maintain Hematopoietic Stem Cell Quiescence and Immune Privilege via Adenosine Cell Stem Cell. 2018 Mar 1 [PMID: 29456159]</td>
<td>Citation using the Alexa Fluor 647 form of this antibody.</td>
</tr>
<tr>
<td>Chimote AA, Balajthy A, Arnold MJ, et al. A defect in KCa3.1 channel activity limits the ability of CD8+ T cells from cancer patients to infiltrate an adenosine-rich microenvironment. Sci Signal. 2018 Apr 24 [PMID: 29692361] (FLOW, Human)</td>
<td>Details: Adenosine A2a R antibody (clone 7F6-G5-A2) was used for Western blot analysis of adenosine A2A receptors in Human Microvascular Endothelial Cells (HMVECs) which were treated overnight with IL-1, TNF-alpha, or IFN-gamma.</td>
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<tr>
<td>Details: Adenosine A2a R antibody (clone 7F6-G5-A2) was used for Western blot analysis of crude membrane protein lysates from THP-1 cells which were treated or not with IL1, TNF-alpha or IFN-gamma.</td>
<td>Rosin DL, Robeva A, Woodard RL et al. Immunohistochemical localization of adenosine A2A receptors in the rat central nervous system. J Comp Neurol. 1998 Nov 16 [PMID: 9822147] (WB, ICC, IHC-Fr, Rat)</td>
</tr>
<tr>
<td>Del Ry S, Moscato S, Bianchi F et al. Altered expression of connexin 43 and related molecular partners in a pig model of left ventricular dysfunction with and without dipyrydamole therapy Pharmacol. Res. 2015 Mar 30 [PMID: 25836920] (ICC/IF, Rat)</td>
<td>Details: Adenosine A2a R antibody (clone 7F6-G5-A2) was used for FLOW analysis of adenosine receptor A2A (ADORA2A) in murine B16 melanoma and human VMM12 melanoma cells (Figure 7).</td>
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Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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