

# Product Datasheet

## Mouse IgG2a Isotype Control (M2A) NBP1-96778

Unit Size: 1 mg

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

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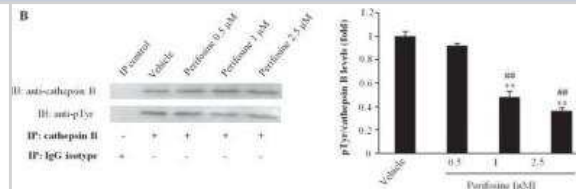


**NBP1-96778****Mouse IgG2a Isotype Control (M2A)**

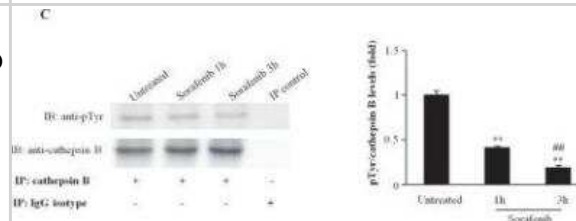
<b>Product Information</b>	
<b>Unit Size</b>	1 mg
<b>Concentration</b>	Please contact technical services for concentration.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	M2A
<b>Preservative</b>	0.01% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein A purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Product Description</b>	
<b>Description</b>	<p>This antibody has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein A. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse IgG2a and anti-Mouse Serum. Isotyping assay resulted the material is non-reactive with antisera to mouse IgG1, IgG2b, IgG3, IgM, and IgA. Confirmed by SDS-PAGE.</p> <p>Store vial at 4C prior to opening. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Mouse
<b>Species</b>	Mouse
<b>Specificity/Sensitivity</b>	Isotyping assay resulted the material is non-reactive with antisera to mouse IgG1, IgG2b, IgG3, IgM, and IgA. Confirmed by SDS-PAGE.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Fluorophore-linked immunosorbent assay, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:100 - 1:2000, Flow Cytometry 1:1000 - 1:5000, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation, Fluorophore-linked immunosorbent assay 1:100 - 1:2000
<b>Application Notes</b>	This product has been tested by SDS-Page and can be utilized as a control or standard reagent in Flow cytometry, Western Blotting, and ELISA experiments where determination of sample isotype is important.

## Images

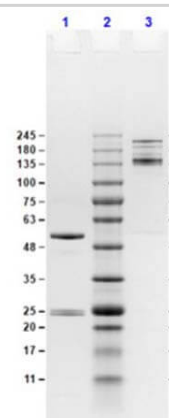
**Immunoprecipitation: Mouse IgG2a Isotype Control (M2A) [NBP1-96778]**  
 - Cell lysates from T24 cells treated for 3h with vehicle or perifosine (0.5, 1 or 2.5 uM) were immunoprecipitated (IP) using a monoclonal anti-CB Ab. The immunoprecipitates were separated via 12% SDS-PAGE and then immunoblotted (IB) using Abs against phospho-tyrosine (pTyr) and CB. The lysates were also immunoprecipitated using isotype-matched IgG, which was used as a control. Image collected and cropped by CiteAb from the following publication (impactjournals.com/oncoscience/index.php?abs=147), licensed under a CC-BY license.



**Immunoprecipitation: Mouse IgG2a Isotype Control (M2A) [NBP1-96778]**  
 - Cell lysates from T24 BC cells either untreated or treated with sorafenib (20 uM) for 1 or 3 h were immunoprecipitated (IP) using a monoclonal anti-CB Ab. The immunoprecipitates were separated via 12% SDS-PAGE and then immunoblotted (IB) using Abs against phospho-tyrosine (anti-pTyr) and CB. The lysates were also immunoprecipitated using isotype-matched IgG, which was used as a control. Image collected and cropped by CiteAb from the following publication (impactjournals.com/oncoscience/index.php?abs=147), licensed under a CC-BY license.



**SDS-Page Results of Mouse IgG2a Isotype Control (M2A). Lane 1: Mouse IgG2a Isotype Control (M2A) Reduced [1.0ug]. Lane 2: Opal Prestained Molecular Weight Marker**



## Publications

Kawasaki Y, Suzuki H, Miura M et al. LAT1 is associated with poor prognosis and radioresistance in head and neck squamous cell carcinoma *Oncology letters* 2023-04-01 [PMID: 36970606] (Flow Cytometry)

Cayli S, Sahin C, Sancı TO, Nakkas H Inhibition of p97/VCP function leads to defective autophagosome maturation, cell cycle arrest and apoptosis in mouse Sertoli cells *Theriogenology* 2020-09-15 [PMID: 32966945] (ICC/IF)

Shin W, Jeon Y, Choi I, Kim YJ. V-set and Ig domain-containing 4 (VSIg4)-expressing hepatic F4/80+ cells regulate oral antigen-specific responses in mouse. *Eur. J. Immunol.* 2017-12-13 [PMID: 29235119] (Mouse)

Details:

This citation used the FITC form of this antibody

Amantini C, Morelli MB, Santoni M et al. Sorafenib induces cathepsin B-mediated apoptosis of bladder cancer cells by regulating the Akt/PTEN pathway. The Akt inhibitor, perifosine, enhances the sorafenib-induced cytotoxicity against bladder cancer cells. *Oncoscience* 2015-01-01 [PMID: 26097873]



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### **Products Related to NBP1-96778**

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F0129	Rat anti-Mouse IgG2a Secondary Antibody (344701) [Phycoerythrin]
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#### **Limitations**

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