Product Datasheet

gamma H2AX [p Ser139] Antibody (EP854(2)Y)
NB100-79967

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

Reviews: 1  Publications: 14

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-79967

Updated 10/23/2016 v.20.1
**Product Information**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>Please see the vial label for concentration. If unlisted please contact technical services.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>EP854(2)Y</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.01% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>59% PBS (pH 7.2), 0.05% BSA and 40% Glycerol</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>15 kDa</td>
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**Product Description**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>3014</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>H2AFX</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Marker</td>
<td>DNA Double-strand break marker</td>
</tr>
<tr>
<td>Immunogen</td>
<td>A synthetic phospho-peptide corresponding to residues surrounding serine 139 of human H2A.x protein.</td>
</tr>
<tr>
<td>Notes</td>
<td>Licensed to Novus Biologicals LLC under U.S. Patent Nos. 6,362,317 and 6,884,873. Manufactured incorporating RabMab® technology under Epitomics US patents, No 5675,063 and 7,429,487, owned by Abcam.</td>
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**Product Application Details**

<table>
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<tr>
<th>Parameter</th>
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<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation</td>
</tr>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1:1000-10000, Chromatin Immunoprecipitation 1:10-1:500, Flow Cytometry 1:100, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:50-100, Immunoprecipitation 1:40, Immunohistochemistry-Paraffin 1:50-100, Immunohistochemistry-Frozen 1:10-1:500</td>
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<tr>
<td>Application Notes</td>
<td>In research publications, this product has been cited for ChIP (PMID: 20360682) and Immunocytochemistry/Immunofluorescence (PMID: 22278880) applications Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 24509083). Use in Immunoprecipition reported in scientific literature (PMID 24449872). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</td>
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</tbody>
</table>
### Images

**Western Blot:** gamma H2AX [p Ser139] Antibody (EP854(2)Y) [NB100-79967] - Jurkat cell lysates. Cells were either (A) untreated (B) treated with etoposide. Note: Dilute primary antibody in 1% BSA.

<table>
<thead>
<tr>
<th>Image</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Western Blot Image" /></td>
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</table>

**Immunocytochemistry/Immunofluorescence:** gamma H2AX [p Ser139] Antibody (EP854(2)Y) [NB100-79967] - Analysis of gamma-irradiated H2AX KO or WT MEF and non-irradiated WT MEF, using anti-gamma H2AX, green; (1:100). Nucleus was stained with PI (red).

<table>
<thead>
<tr>
<th>Image</th>
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<tbody>
<tr>
<td><img src="image2.png" alt="Immunocytochemistry Image" /></td>
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<table>
<thead>
<tr>
<th>Image</th>
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<tbody>
<tr>
<td><img src="image3.png" alt="Immunohistochemistry Image" /></td>
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**Flow Cytometry:** gamma H2AX [p Ser139] Antibody (EP854(2)Y) [NB100-79967] - Overlay histogram showing HeLa cells stained with (red line).

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<tr>
<td><img src="image4.png" alt="Flow Cytometry Image" /></td>
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<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Journal</th>
<th>Date</th>
<th>PubMed ID</th>
<th>Techniques</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakanuma Y, Kakuda Y, Uesaka K et al.</td>
<td>Characterization of intraductal papillary neoplasm of bile duct with respect to histopathological similarities to pancreatic intraductal papillary mucinous neoplasm.</td>
<td>Human Pathology.</td>
<td>2016 Jan 19</td>
<td></td>
<td>IHC-P, Human</td>
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<tr>
<td>Kinoshita M, Kubo S, Nakanuma Y et al.</td>
<td>Pathological spectrum of bile duct lesions from chronic bile duct injury to invasive cholangiocarcinoma corresponding to bile duct imaging findings of occupational cholangiocarcinoma.</td>
<td>J Hepatobiliary Pancreat Sci.</td>
<td>2015 Nov 18</td>
<td>26580863</td>
<td></td>
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<tr>
<td>Thuy LT, Matsumoto Y, Thuy TT et al.</td>
<td>Cytoglobin Deficiency Promotes Liver Cancer Development from Hepatosteatosis through Activation of the Oxidative Stress Pathway</td>
<td>Am. J. Pathol.</td>
<td>2015 Feb 07</td>
<td>25665792</td>
<td>(IHC-P, Human, Mouse)</td>
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<tr>
<td>Iacovoni JS, Caron P, Lassadi I et al.</td>
<td>High-resolution profiling of gammaH2AX around DNA double strand breaks in the mammalian genome.</td>
<td>EMBO J</td>
<td>2010 Apr</td>
<td>20360682</td>
<td>ICC/IF, ChIP</td>
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More publications at [http://www.novusbio.com/NB100-79967](http://www.novusbio.com/NB100-79967)
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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