

Product Datasheet

Histone H2AX [p Ser139] Antibody (2F3) NB100-78356

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NB100-78356**Histone H2AX [p Ser139] Antibody (2F3)**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	2F3
Preservative	0.09% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	PBS (pH 7.2)
Target Molecular Weight	15.145 kDa
Product Description	
Host	Mouse
Gene ID	3014
Gene Symbol	H2AX
Species	Human, Mouse
Reactivity Notes	Reacts with Ser139-phosphorylated H2A.X. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Marker	DNA Double-strand break marker
Specificity/Sensitivity	H2A.X (2F3) [Ser139]
Immunogen	Modified peptide (KATQASQEY)
Notes	Licensed to Novus Biologicals LLC under U.S. Patent Nos. 6,362,317 and 6,884,873.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1-4 ug/ml, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 mug antibody per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1~4 microgram/ml. It is recommended that the reagent be titrated for optimal performance for each application. FC reported in literature (PMID:23449797).

Publications

Ciminera AK, Shuck SC, Termini J Elevated glucose increases genomic instability by inhibiting nucleotide excision repair Life science alliance 2021-10-01 [PMID: 34426491] (WB, ICC/IF, Human)

Zastko L, Petrovicova P, Rackova A et al. DNA damage response and apoptosis induced by hyperthermia in human umbilical cord blood lymphocytes Toxicology in vitro : an international journal published in association with BIBRA 2021-02-27 [PMID: 33652125] (ICC/IF, Human)

Alvarez-Palomo AB, Requena-Osete J, Delgado-Morales R et al. A synthetic mRNA cell reprogramming method using CYCLIN D1 promotes DNA repair generating improved genetically stable human induced pluripotent stem cells Stem cells (Dayton, Ohio) 2021-02-23 [PMID: 33621399] (ICC/IF, Mouse)

Tsai LJ, Lopezcolorado FW, Bhargava R et al. RNF8 has both KU-dependent and independent roles in chromosomal break repair Nucleic Acids Res. 2020-05-19 [PMID: 32427332]

Piechota M, Sunderland P, Wysocka A et al. Is senescence-associated beta-galactosidase a marker of neuronal senescence? Oncotarget. 2016-12-05 [PMID: 27768595] (ICC/IF, Rat)

Nassour J, Martien S, Martin N, et al. Defective DNA single-strand break repair is responsible for senescence and neoplastic escape of epithelial cells. Nat Commun. 2016-01-29 [PMID: 26822533] (ICC/IF, WB, Human)

Lagundin D, Hu W, Law H et al. Delineating the role of FANCA in glucose-stimulated insulin secretion in beta cells through its protein interactome PLoS ONE 2019-08-28 [PMID: 31461451]

Hu WF, Krieger KL, Lagundzin D et al. CTD1P1 regulates breast cancer survival and DNA repair through BRCT-specific interactions with FANCI Cell Death Discov 2019-06-19 [PMID: 31240132] (ICC/IF, Human)

Smith R, Sellou H, Chapuis C et al. CHD3 and CHD4 recruitment and chromatin remodeling activity at DNA breaks is promoted by early poly(ADP-ribose)-dependent chromatin relaxation Nucleic Acids Res. 2018-05-04 [PMID: 29733391] (ICC/IF, Human)

Onyango DO, Lee G, Stark JM. PRPF8 is important for BRCA1-mediated homologous recombination Oncotarget. 2017-10-06 [PMID: 29212152] (ICC/IF, Human)

Tran TQ, Ishak Gabra MB, Lowman XH et al. Glutamine deficiency induces DNA alkylation damage and sensitizes cancer cells to alkylating agents through inhibition of ALKBH enzymes PLoS Biol. 2017-11-01 [PMID: 29107960] (ICC/IF, Mouse)

Jakl L, Lobachevsky P, Vokalova L et al. Validation of JCountPro software for efficient assessment of ionizing radiation-induced foci in human lymphocytes. Int J Radiat Biol 2016-12-01 [PMID: 27648492] (ICC/IF, Human)

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