

Product Datasheet

Histone H2Av [p Ser137] Antibody - BSA Free **NBP1-78103**

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP1-78103**Histone H2Av [p Ser137] Antibody - BSA Free****Product Information**

Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description

Description	Affinity purified Anti-Histone H2AvD [p Ser137] Antibody is directed against the phosphorylated form of Drosophila H2AvD protein at the [p Ser137] residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. 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.
Host	Rabbit
Gene ID	43229
Gene Symbol	His2Av
Species	Drosophila
Reactivity Notes	A BLAST analysis was used to suggest little to no cross reactivity with H2AvD proteins from other sources based on a comparison using the immunizing sequence. Reactivity against homologues from other sources is not known
Specificity/Sensitivity	Affinity purified Anti-Histone Histone H2Av pS137 Antibody is directed against the phosphorylated form of Drosophila Histone H2Av protein at the pS137 residue. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against Drosophila Histone H2Av pS137 protein and the antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated Drosophila Histone H2Av is minimal by ELISA. A BLAST analysis was used to suggest little to no cross reactivity with Histone H2Av proteins from other sources based on a comparison using the immunizing sequence. Reactivity against homologues from other sources is not known.
Immunogen	Histone H2Av [p Ser137] Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-Terminal region near amino acids 125-141 of Drosophila melanogaster (fruit fly) H2AvD protein. (Uniprot: P08985)

Product Application Details

Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
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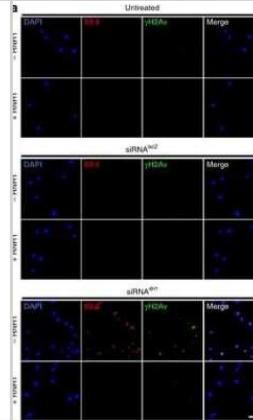
Recommended Dilutions	Western Blot 1:400-1:1600, ELISA 1:29000-1:30000, Immunohistochemistry 2 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin
Application Notes	<p>This product is tested in ELISA, Immunohistochemistry, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 14 kDa in size corresponding to phosphorylated H2AvD protein by western blotting in the appropriate Drosophila tissue or cell lysate or extract. Minimal reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is phospho specific for pS137 of H2AvD protein.</p> <p>Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 27198229).</p> <p>Use in IHC-Fr reported in scientific literature (PMID:33485066)</p>

Images

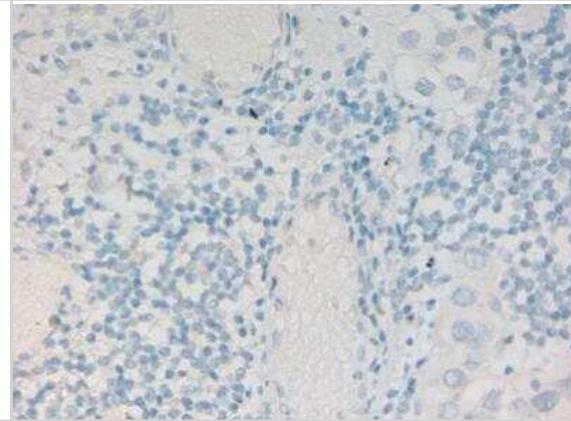
Western Blot: Histone H2Av [p Ser137] Antibody [NBP1-78103] - Shows detection of a band at ~15 kDa corresponding to phosphorylated H2AvD (lane 2 arrow-head). Lanes contain either mock-irradiated (lane 1) or 4000-RAD gamma irradiated (lane 2) Drosophila melanogaster (3rd instar) larvae brain WC lysate separated on by SDS-PAGE and transferred to nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:500. Washes and reaction with secondary antibody followed incubation. Use HRP conjugated Gt-a-Rabbit IgG [H&L] MX and ECL for detection. Personal Communication. YikA/G Rong, NIH, CCR, Bethesda, MD.



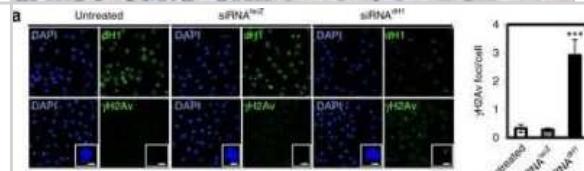
Immunocytochemistry/Immunofluorescence: Histone H2Av [p Ser137] Antibody [NBP1-78103]



Immunohistochemistry-Paraffin: Histone H2Av [p Ser137] Antibody [NBP1-78103] - Human Bladder Cancer.



Immunocytochemistry/Immunofluorescence: Histone H2Av [p Ser137] Antibody [NBP1-78103]



Publications

Huang F, Saraf A, Florens L et al. The Elg1 acetyltransferase complex interacts with Elg1 and negatively regulates PCNA unloading to promote the G1/S transition. *Genes Dev.* 2016-05-15 [PMID: 27198229] (ICC/IF, Drosophila)



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Products Related to NBP1-78103

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

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