

## Product datasheet for **AP09307PU-N**

### His2Av pSer137 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> 1/5,000-1/20,000. <b>Western Blot:</b> 1/400-1/1,600.
Reactivity:	Drosophila
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids 132-141 of Drosophila melanogaster (fruit fly) H2AvD protein.
Specificity:	This antibody is directed against the phosphorylated form of Drosophila H2AvD protein at the pSer137 residue. Reactivity with non-phosphorylated Drosophila H2AvD is minimal by ELISA. 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. 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. Less than 0.2% reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is phospho specific for pSer137 of H2AvD protein.
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 State: Aff - Purified State: Liquid (sterile filtered) purified Ig fraction Stabilizer: None Preservative: 0.01% (w/v) Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography: 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.
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. This product is stable for several weeks at 2-8°C as an undiluted liquid. Dilute only prior to immediate use. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Database Link:</b>	<a href="#">P08985</a>
<b>Background:</b>	Variant histones H2A are synthesized throughout the cell cycle and are very different from classical Sphase regulated H2A. H2AvD is vital for viability, but the exact function of variant histones H2A is not known. H2A is a core component of the nucleosome, an octamer containing two molecules each of H2A, H2B, H3 and H4. The octamer wraps approximately 146 bp of DNA. HsAvD is expressed both maternally and zygotically and is found in embryos through to adults (female only). The human homologue, H2AX, is phosphorylated by ATM protein kinase when double strand DNA breaks occur. In mouse, H2AX "knock out" mice have an increased incidence of cancer.
<b>Synonyms:</b>	His2Av, H2AvD, His2AvD, CG5499, H2A.F/Z, H2AFV, H2AV

**Product images:**

Western blot using affinity purified Histone H2AvD pS137 antibody shows detection of a band at ~15 kDa corresponding to phosphorylated H2AvD (Lane 2 arrowhead). Lanes contain either mockirradiated (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 Goat anti-Rabbit IgG [H&L] MX and ECL for detection. Personal Communication. Yikang Rong, NIH, CCR, Bethesda, MD.