

Datasheet for ABIN6971793  
**anti-H2AFV antibody (C-Term)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µg
Target:	H2AFV
Binding Specificity:	C-Term
Reactivity:	Drosophila melanogaster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This H2AFV antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

## Product Details

Immunogen:	This antibody was raised against a peptide in the C-terminus of the <i>Drosophila melanogaster</i> Histone variant H2Av.
Clone:	10E9-D1
Isotype:	IgG2a
Characteristics:	The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H2A.Z (H2AZ, H2AFZ) is a histone H2A variant, a protein similar to canonical H2A but with different molecular identity and unique functions. H2A.Z is highly conserved during evolution. It plays an important role in basic cellular mechanisms such as gene activation, chromosome segregation, heterochromatic silencing and progression through the cell cycle. In <i>Drosophila</i> , the H2A variant corresponding to H2AZ is H2Av. H2Av is an

## Product Details

essential protein in *Drosophila* and has been implicated in both activation and repression of transcription. H2Av is localized to centromeric heterochromatin in *Drosophila* and flies lacking H2Av have reduced levels of heterochromatin components at the centromeres. However, H2Av nucleosome distribution throughout the rest of the *Drosophila* genome correlates with genes that have an open and uniform chromatin architecture at promoter regions. Histone H2Av antibody (mAb) (Clone 10E9.D1) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation and Western blot, it has been shown to react with *Drosophila* samples.

Purification:	Protein A Chromatography
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## Target Details

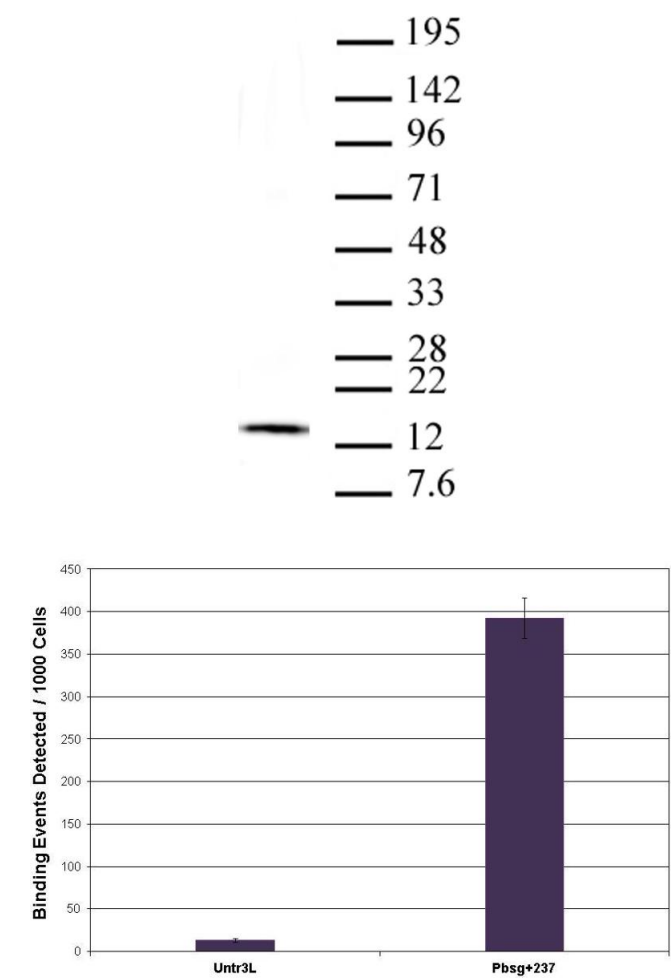
Target:	H2AFV
Alternative Name:	Histone H2Av ( <a href="#">H2AFV Products</a> )
Molecular Weight:	15 kDa
NCBI Accession:	<a href="#">NP_524519</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



### Western Blotting

**Image 1.** Histone H2Av antibody (mAb) tested by Western blot. Detection of Histone H2Av by Western blot. The analysis was performed using Schneider's Drosophila L2 nuclear extract (20 µg) and the Histone H2Av antibody at a dilution of 1 µg/mL.

### Chromatin Immunoprecipitation

**Image 2.** Histone H2Av antibody (mAb) tested by ChIP. ChIP was performed using the ChIP-IT High Sensitivity Kit with chromatin from Drosophila cells and 5 µg of H2Av antibody. ChIP DNA was used in qPCR with the control primer pairs or gene-specific primer pairs as indicated. Data are presented as Binding Events Detected per 1000 Cells using Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.