Datasheet for ABIN401328
anti-H2AFV antibody (pSer137)

1   Image

Overview

Quantity:	0.1 mg
Target:	H2AFV
Binding Specificity:	AA 132-141, pSer137
Reactivity:	Drosophila melanogaster
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Synthetic peptide corresponding to amino acids 132-141 of Drosophila melanogaster (fruit fly) H2AvD protein.
Isotype:	IgG
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 pS137 of H2AvD protein.
Purification:	Affinity Chromatography: The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the

Product Details

immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide.

Target Details

Target:	H2AFV
Alternative Name:	Histone H2A.v (H2AFV Products)
Background:	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.Synonyms: CG5499, H2A.F/Z, H2AFV, H2AV, H2AvD, His2Av, His2AvD
Gene ID:	43229
NCBI Accession:	NP_524519
UniProt:	P08985

Application Details

Application Notes:	ELISA: 1/4,000-1/16,000. Western Blot: 1/400-1/1,600. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL (by UV absorbance at 280 nm)
Buffer:	0.02 M Potassium Phosphate, 0.12 M Sodium Chloride, pH 7.2 containing 0.01 % (w/v) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled.

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Handling

Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody (in aliquots) at-20 °C. This product is stable for several weeks at 2-0 °C as an undiluted liquid. Dilute only prior to immediate use.

Images

Image 1.