

AB-PN826

HIST1H3A-pS10 Antibody

Phosphosite-specific rabbit polyclonal antibody for H3F3A (HIST1H3A; Histone H3A). This phosphoserine-site antibody also weakly crossreacts with a serine substitution in the phosphosite.

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Target Protein

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| Protein Name Long: | Histone H3.3 |
| Protein Alias: | CG5825; H3.3; H3.3Q; H3.A; H3.B; H33; H3f3a; H3F3B; HIS3.3A; HIS3.3B ORCG8989; HISH3-3Q |
| UniProt ID: | P84243 |
| Protein Molecular Mass: | 15,328 Da (136 AA) |

Immunogen

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| Antibody Immunogen Source: | Synthetic phosphopeptide patterned after human HIST1H3A |
| Antibody Immunogen Sequence: | TARK(pS)TGGC |
| Antibody Immunogen Description: | Corresponds to amino acid residues T601 to G13. The effect of S10 phosphorylation is unclear. This is a minor <i>in vivo</i> site of phosphorylation of H3F3A (≥ 4 reports from high throughput mass spectrometry studies in PhosphoSitePlus). H3F3A is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), AurKB (AurB, STK12), Fyn, IKKa (CHUK, IKBKA), MSK1 (RPS6KA5), MSK2 (RPS6KA4), PKACa (PRKACA), RSK1 (RPS6KA1), RSK2 (RPS6KA3), and SNRK. |
| Antibody Target Type: | Phosphosite-specific |

Production

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| Antibody Host Species: | Rabbit |
| Antibody Type: | Polyclonal |
| Antibody Isotype: | IgG |
| Production Method: | The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| Amount: | 25 μ g |
| Antibody Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline pH 7.4, 0.05% Thimerasol |
| Storage Conditions: | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles. |
| Storage Stability: | >2 years |

Applications

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| Product Use: | Western blotting Antibody microarray |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human Mouse |

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987