

## Product Specification Sheet

**Product:** Affinity Purified Anti-Human Histone H4 pS1 (Rabbit)

**Code:** 600-401-353

**Lot #:** 13459

**Size:** 100 µg

**Physical State:** Liquid (sterile filtered)

**Antibody Concentration:** 0.27 mg/ml (by UV absorbance at 280 nm)

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** None

**Preservative:** 0.01% (w/v) Sodium Azide

**Storage Conditions:** Store vial at -20° C prior to opening. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening.

**Application Note(s):** This affinity purified antibody has been tested for use in ELISA against the immunizing peptide. Reactivity in other immunoassays is unknown.

**Recommended Dilutions:** This product has been assayed by ELISA against 0.1 µg of the immunizing peptide. A 1:4,000 dilution of the antibody is recommended for this assay. No reactivity is observed against the non-phosphorylated form of the peptide.

**Purity and Specificity:** This affinity purified antibody is directed against the phosphorylated form of human Histone H4 at the pS1 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. This phospho specific polyclonal antibody reacts with phosphorylated pS1 of human Histone H4. Reactivity with non-phosphorylated human Histone H4 is minimal by ELISA. Cross reactivity with Histone H4 homologs from other sources has not been determined.

**Immunogen:** This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to aa 1-11 of human Histone H4. Histone H4, along with histone H3, plays a central role in nucleosome formation. The nucleosome is an octamer containing two molecules each of H2A, H2B, H3 and H4. The octamer wraps approximately 146 BP of DNA.

**Peptide sequence:** pS-G-R-G-K-G-G-K-G-L-G-C

**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.