

## Datasheet

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Catalog Number GTX61796 Package:100 µl Reference (3) Histone H2A.XS139ph (phospho Ser139) antibody [EP854(2)Y] **Product Name** Full Name H2A histone family, member X Synonyms gamma H2AX, H2A.XS139ph, Phospho Histone H2A.X (pS139) Product Description Rabbit monoclonal antibody [EP854(2)Y] to Histone H2A.x (phospho Ser139) Background Histones are basic nuclear proteins that are responsible for the structure of eukaryotic chromosomal fibers. H2AX is a member of the histone H2A family which is one of the four core histones making up the nucleosome core particle. Double-stranded breaks in DNA caused by replication errors, apoptosis, physiological processes and DNA damage caused by ionizing radiation, UV light or cytotoxic agents lead to phosphorylation of H2AX on serine 139. H2AX (pS139) is also referred to as H2AX (pS140) when the N-terminal methionine that is normally excised during posttranslational processing is included in amino acid sequence numbering. The phosphorylation of H2AX can be detected by Western blotting or immunofluorescence, revealing the frequency of DSBs. The phosphatidylinositol 3-kinases have been implicated in H2AX phosphorylation, but it is unclear if ATM is the primary H2AX kinase or if other members of the family such as DNA-PK and ATR contribute in a similar manner. Host Rabbit Clonality Monoclonal Clone Name EP854(2)Y Isotype lgG Target Histone H2A.x Phospho (pS139) A synthetic phospho-peptide corresponding to residues surrounding serine 139 of human H2A.x protein. Immunogen Antigen Species Human **Species Reactivity** Human, Mouse, Rat ICC/IF, IHC-P, WB Applications Application Note **Recommended Starting Dilutions:** For WB: Use at a dilution of 1:1,000 - 10,000 For IHC: Use at a dilution of 1:50 - 100 For ICC: Use at a dilution of 1:50 - 100 Optimal working dilution for a specific application should be determined by the investigator. **Predicted Target Size** 14 Form Supplied Liquid Purification Cell Supernatant 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Storage Buffer Storage Instruction Store at -20 °C. Stable for 12 months from date of receipt. For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human Notes consumption. RabMAb® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,488. ResearchArea Cancer > DNA repair > Double-strand break repair > Homologous recombination Cancer > DNA repair > Regulation > Positive regulation Cancer > Type of cancer > Breast > Other

## Application Reference

1. Perrique PM (2015) Mol Cancer Res 636-50 2. Samoshkin A (2009) PLoS One e6831

3. Hovest MG (2011) Exp Dermatol 883-9



## GTX61796 IHC-P Image

B. Immunohistochemical analysis of paraffin-embedded human kidney transitional cell carcinoma using anti-Histone H2A.x RabMAb (cat. #GTX61796).



## GTX61796 WB Image

A. Western blot analysis on Jurkat cell lysates using anti-Phospho-H2A.x (pS139) RabMAb (cat. #GTX61796). Cells were either (A) untreated (B) treated with etoposide