

# Immunotag™ Phospho-Histone H2A.X (Ser139) Antibody

| Antibody Specification |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.            | ITA0958                                                                                                                                                                          |
| Product Description    | Immunotag™ Phospho-Histone H2A.X (Ser139) Antibody                                                                                                                               |
| Size                   | 100 µg, 200 µg                                                                                                                                                                   |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                    |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.               |
| Target Protein         | Phospho-Histone H2A.X (Ser139)                                                                                                                                                   |
| Clonality              | Polyclonal                                                                                                                                                                       |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                     |
| Application            | WB,IHC,ELISA                                                                                                                                                                     |
| Recommended Dilution   | WB 1:500-1:2000 IHC 1:50-1:200                                                                                                                                                   |
| Concentration          | 1 mg/ml                                                                                                                                                                          |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                  |
| Host Species           | Rabbit                                                                                                                                                                           |
| Immunogen              | A synthesized peptide derived from human Histone H2A.X around the phosphorylation site of Serine 139                                                                             |
| Specificity            | Phospho-Histone H2A.X (Ser139) Antibody detects endogenous levels of Histone H2A.X only when phosphorylated at Serine 139                                                        |
| Purification           | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.                          |
| Form                   | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt                      |
| Gene Name              | H2AFX                                                                                                                                                                            |
| Accession No.          | P16104                                                                                                                                                                           |
| Alternate Names        | AW228881; H2A histone family member X; H2A.FX; H2A.X; H2a/x; H2AFX; H2AX; H2AX histone; H2AX_HUMAN; Hist5.2ax; Histone 2A; Histone 2AX; Histone H2A.X; Histone H2AX; RGD1566119; |

## Antibody Specification

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| Description               | Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation. |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein MW                | 15kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |