# Data Sheet (Cat.No.TMAB-06861)

## Anti-H2AX Antibody (6B770)

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human |
| Molecular Weight: | Theoretical: 16 kDa. Actual: 16 kDa. |
| Clone: | 6B770 |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | 1. Sample:<br>Lane 1: Human MCF-7 cell Lysates<br>Lane 2: Human 293T cell Lysates<br>Lane 3: Human Jurkat cell Lysates<br>Lane 4: Human Hela cell Lysates<br>Lane 5: Human K562 cell Lysates<br>Lane 6: Human MOLT4 cell Lysates<br>Lane 7: Human U2OS cell Lysates<br>Primary: Anti-H2AFX (TMAB-06861) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution<br>Predicted band size: 16 kDa<br>Observed band size: 16 kDa<br>2. Paraformaldehyde-fixed, paraffin embedded (human skin cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (H2AFX) Monoclonal Antibody, Unconjugated (TMAB-06861) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.<br>3. Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (H2AFX) Monoclonal Antibody, Unconjugated (TMAB-06861) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining. |
| Application: | WB,IHC-P,IHC-Fr,IF |
| Recommended | WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:400-800; IF: 1:100-500 |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

## Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human H2AX |
| Antigen Species: | Human |
| Gene ID: | 3014 |
| Uniprot ID: | P16104 |

## Research Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Jul 2008].



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