

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse WDR5 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human WDR5 Met1-Lys120 Accession # P61964
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p> <p>Detection of Human WDR5 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 1 µg/mL Goat Anti-Human/Mouse WDR5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5810) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band for WDR5 was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p> <p>WDR5 in Human B-Cell Lymphoma. WDR5 was detected in immersion fixed paraffin-embedded sections of human B-cell lymphoma using Goat Anti-Human/Mouse WDR5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5810) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

WDR5 (WD repeat-containing protein 5; also BMP2-induced 3 kb gene protein/BIG3) is a nuclear, 36-40 kDa monomeric member of the WD family of repeat proteins. It is known to be expressed in osteoblasts, osteocytes and chondrocytes, among other cells, and appears to serve as a structural organizer for the histone methyltransferase MLL1 complex. This complex methylates histone H3, and within this complex, WDR5 binds to mono- or dimethylated histone H3 and serves as an anchor for complex subunits RbBP5, Ash2L and MLL1. Human WDR5 is 334 amino acids (aa) in length. It contains seven WD domains (aa 43-333) that likely participate in protein-protein interactions, plus a phosphorylation site at Ser267. There are three isoform variants for WDR5. Human and mouse WDR5 are absolutely identical in aa sequence.