

DESCRIPTION

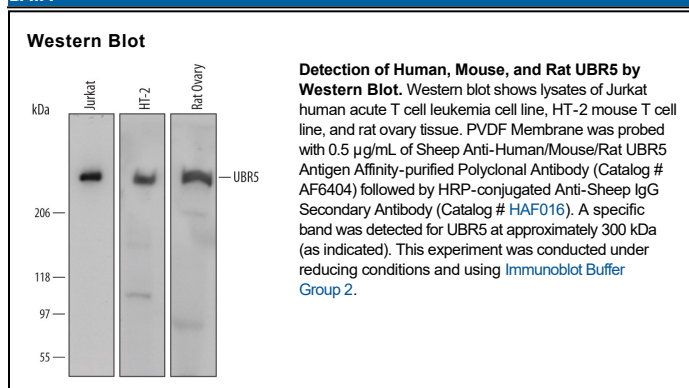
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat UBR5 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human UBR5 Met1-Asp227 Accession # O95071
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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	0.5 µg/mL	See Below

DATA



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

UBR5 (Ubiquitin protein ligase E3 component n-recognin 5; also HYD and EDD) is a 280-300 kDa member of the HECT E3 family of ubiquitin (Ub) protein ligases. It is ubiquitously expressed, and found in both the cytoplasm and nucleus of cells. In addition to ubiquitination, UBR5 is functionally diverse. In the cytoplasm, it interacts with, and stabilizes APC, thereby increasing its concentration. In the nucleus (of smooth muscle cells), it stabilizes myocardin, a transcription factor that activates smooth muscle-specific genes. Perhaps its best known function involves DNA checkpoint activation. Following DNA damage, UBR5 promotes the phosphorylation of CHK2, which arrests the cell cycle at G2/M. Human UBR5 is 2799 amino acids (aa) in length and contains a Ub-associated domain (aa 180-215), two NLS's (aa 502-517 and 630-635), one UBR-type zinc finger region (aa 1177-1244), a PABC region (aa 2377-2454) and a HECT domain with a Ub-binding Cys residue (aa 2462-2799). Over aa 1-227, human UBR5 shares 98% aa identity with mouse UBR5.