

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Ubiquitin in direct ELISAs
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1002A
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	HEK293 human embryonic kidney cell line transfected with human Ubiquitin Accession # P0CG47
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	See Below

**DATA**

**Western Blot**

**Detection of Human Ubiquitin by Western Blot.** Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line untreated (-) or treated with MG132. PVDF membrane was probed with 0.1 µg/mL of Rabbit Anti-Human Ubiquitin Monoclonal Antibody (Catalog # MAB8595) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for Ubiquitin at various molecular weights (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Western Blot**

**Detection of Ubiquitin by Western Blot.** Western blot shows Di-Ubiquitin chains of the indicated linkage type loaded at 2 ng/lane. PVDF membrane was probed with 0.1 µg/mL of Rabbit Anti-Human Ubiquitin Monoclonal Antibody (Catalog # MAB8595) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for Di-Ubiquitin as indicated. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Ubiquitin is a 76 amino acid, highly conserved nuclear and cytoplasmic protein. It is found exclusively in eukaryotes, becomes covalently attached to substrate proteins by enzymes in the Ubiquitin-Proteasome Pathway (UPP) and has a major role in targeting cellular proteins for the ATP-dependent degradation by the 26S proteasome. Ubiquitination also affects proteasome-independent events such as protein localization, activity and function.