

**DESCRIPTION**

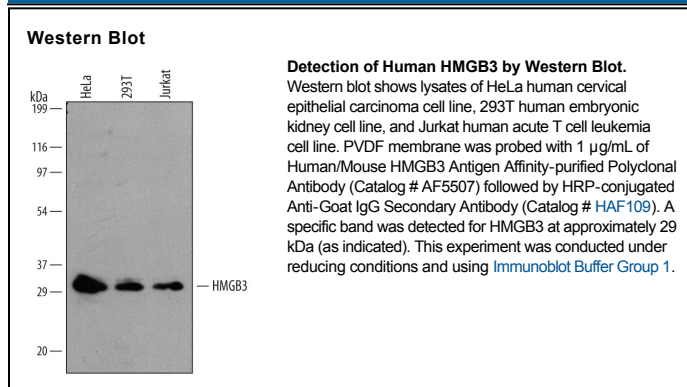
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects endogenous human/mouse HMGB3 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HMGB3 Met1-Vai180 Accession # O15347
<b>Formulation</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 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>	1 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 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**

High mobility group protein B3 (HMGB3; also HMG-4 and HMG-2a) is a 23 kDa nuclear protein and member of the HMGB family. Human HMGB3 is synthesized as a 200 amino acid (aa) precursor, which is demethylated to produce the 199 aa mature chain. The protein contains two HMG box DNA-binding domains (aa 9-79 and 93-161) and an acidic Asp/Glu-rich region (aa 181-200). Human HMGB3 shares 98% aa sequence identity with mouse and bovine HMGB3. HMGB3 is expressed predominantly in the placenta. It binds preferentially single-stranded DNA and unwinds double stranded DNA.