

## DESCRIPTION

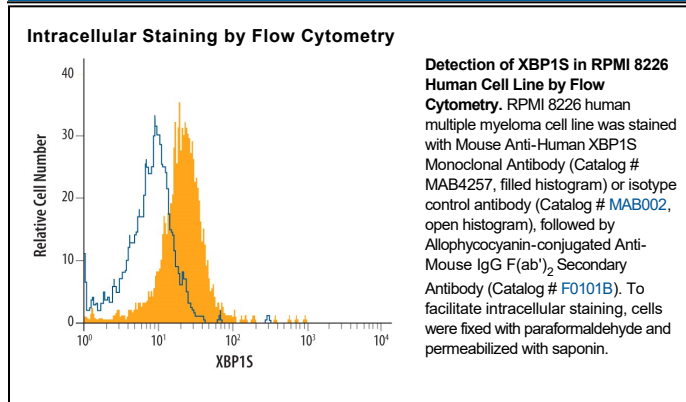
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human XBP1 (S Isoform) (XBP1S) in direct ELISAs. This segment is found only in the XBP1S (spliced) variant. Does not detect XBP1U (unspliced).
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 525904
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human XBP1S Ser188-Leu287 Accession # NP_001073007
<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.

	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## 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

X-box binding protein 1 (XBP1; also tax-responsive element-binding protein 5 (TREB5) is a ubiquitously expressed member of the bZIP family of proteins. The spliced form of XBP1 (XBP1S) is a 376 amino acid (aa), 55 kDa transcription factor essential for the unfolded protein response. XBP1S is formed during endoplasmic reticulum stress by IRE-1-mediated splicing that creates a 210 aa substitution for XBP1 aa 161-261. XBP1S contains a basic DNA binding motif (aa 72-94) and a leucine-zipper domain (aa 98-126). Within the region used as an immunogen, human XBP1S shares 96% aa sequence identity with mouse XBP1S.