**DESCRIPTION**

**Species Reactivity** Human

**Specificity** Detects human XBP1 (S isoform) (XBP1S) in direct ELISAs. This segment is found only in the XBP1S (spliced) variant. Does not detect XBP1U (unspliced).

**Source** Monoclonal Mouse IgG, Clone # 525904

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** E. coli-derived recombinant human XBP1S Ser188-Leu287

**Accession #** NP_001073007

**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.

<table>
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<th>Recommended Concentration</th>
<th>Sample</th>
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<td>2.5 μg/10⁶ cells</td>
<td>See Below</td>
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**Intracellular Staining by Flow Cytometry**

**CyTOF-ready** Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**BACKGROUND**

X-box binding protein 1 (XBP1; also tax-responsive element-binding protein 5 (TREBS)) 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 IRE1-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.