

DESCRIPTION

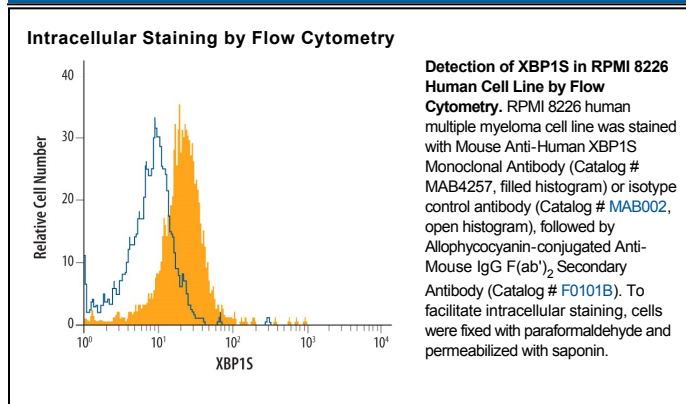
Species Reactivity	Human
Specificity	Detects human XBP1 (S Isoform) (XBP1S) in direct ELISAs. This segment is found only in the XBP1S (spliced) variant. Does not detect XBP1U (unspliced).
Source	Monoclonal Mouse IgG ₁ Clone # 525904
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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 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
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

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.