

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	RPMI 8226 human multiple myeloma cell line fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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