

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human F-box protein 15/FBXO15 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse F-box protein 15 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 612834
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human F-box protein 15/FBXO15 isoform 2 Asn298-Tyr434 Accession # Q8NCQ5-2
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.

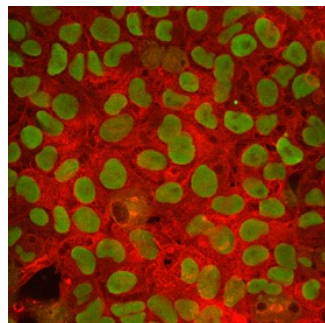
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below
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.	

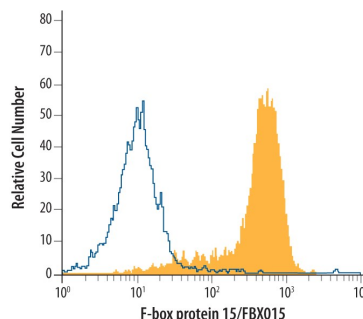
DATA

Immunocytochemistry



F-box protein 15/FBXO15 in BG01V Human Embryonic Stem Cells.
F-box protein 15/FBXO15 was detected in immersion fixed BG01V human embryonic stem cells using Mouse Anti-Human F-box protein 15/FBXO15 Monoclonal Antibody (Catalog # MAB6035) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007). Oct-3/4 was detected in cell nuclei using Goat Anti-Human Oct-3/4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1759) and stained using NorthernLights™ 493-conjugated Anti-Goat IgG Secondary Antibody (green; Catalog # NL003). Specific staining of F-box protein 15 was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Intracellular Staining by Flow Cytometry



Detection of FBXO15 in BG01V Human Stem Cells by Flow Cytometry.
BG01V human embryonic stem cells were stained with Mouse Anti-Human F-box protein 15/FBXO15 Monoclonal Antibody (Catalog # MAB6035, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

FBXO15 (F-box only protein 15; also FBX15) is a 50-60 kDa member of the F-box family, O-subfamily of molecules that is most closely related to FBXO8 and O11. It is found in pluripotent stem cells and testis tissue, and apparently serves as a substrate recognition component of the SCF-type E3 ubiquitin ligase. Human FBXO15 (isoform 2 of accession Q8NCQ5) is 434 amino acids (aa) in length. It contains one F-box (aa 1-41) that likely serves as an interaction domain for SKP1. There are two potential isoforms, one that contains an alternative start site 76 aa upstream of the standard site (isoform 1 of accession Q8NCQ5), and a second that shows complex splicing that includes a 66 aa insertion after Asn35, a Ser substitution for aa 186-256, and a 106 aa substitution for aa 304-346. Over aa 298-434, human FBXO15 shares 53% aa identity with mouse FBXO15.