

DESCRIPTION

Species Reactivity	Human/Equine
Specificity	Detects native human Cytochrome c but not mouse Cytochrome c.
Source	Monoclonal Mouse IgG _{2A} Clone # 2B5F8
Purification	Protein A or G purified from ascites
Immunogen	Equine Cytochrome c
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.

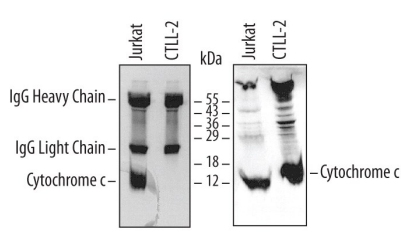
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human brain (basal ganglia)
Immunoprecipitation	1 µg/10 ⁶ cells	See Below

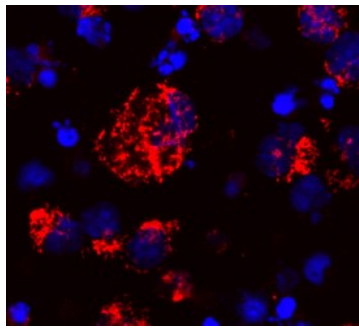
DATA

Immunoprecipitation



Immunoprecipitation of Human/Mouse Cytochrome c. Cytochrome c was immunoprecipitated from lysates (5 x 10⁶ cells) of Jurkat human acute T cell leukemia and CTLL-2 mouse cytotoxic T cell line following incubation with 5 µg Human/Equine Cytochrome c Monoclonal Antibody (Catalog # MAB898) for 1 hour at 4 °C. Cytochrome c-antibody complexes were absorbed using Protein A Immunoprecipitin (Life Technologies). Immunoprecipitated Cytochrome c (left panel) was detected by Western blot using 0.5 µg/mL Human/Mouse/Rat Cytochrome c Monoclonal Antibody (Catalog # MAB897). For additional reference, Western blot (right panel) shows lysates of Jurkat and CTLL2 cell lines probed with 15 µg/mL Human/Mouse/Rat Cytochrome c Monoclonal Antibody (Catalog # MAB897). View our recommended buffer recipes for immunoprecipitation.

Immunocytochemistry



Cytochrome c in Human PBMCs. Cytochrome c was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with ionomycin and PMA using Human/Equine Cytochrome c Monoclonal Antibody (Catalog # MAB898) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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

Cytochrome c is a mitochondrial electron transport protein that functions in oxidative phosphorylation. Release of Cytochrome c is an early step in apoptotic cell death. Human and equine Cytochrome c share 89% amino acid sequence identity.