

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse RASSF2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RASSF2 Lys100-Gly230 Accession # P50749
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.

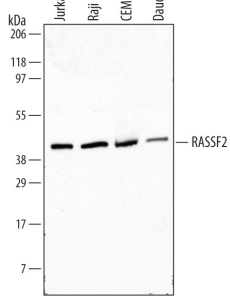
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

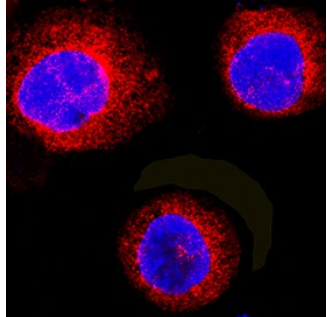
DATA

Western Blot



Detection of Human RASSF2 by Western Blot.
Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Raji human Burkitt's lymphoma cell line, CEM human T-lymphoblastoid cell line, and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse RASSF2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5639) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for RASSF2 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunocytochemistry



RASSF2 in U937 Human Cell Line.
RASSF2 was detected in immersion fixed U937 human histiocytic lymphoma cell line using Goat Anti-Human/Mouse RASSF2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5639) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

RASSF2 (Ras association domain-containing protein 2; also RASSF2A) is a 34-36 kDa member of the RASSF family of proteins. It is widely expressed, and serves as a tumor suppressor by interacting with K-Ras in a GTP-dependent manner, and activating caspase-3 and inducing apoptosis. Human RASSF2 is 326 amino acids (aa) in length. It contains a bipartite NLS (aa 151-167), a Ras-association domain (aa 176-264) and a SARAH domain (aa 272-319) that mediates homo- and heterotypic interactions. Multiple isoforms exist. One shows an insertion of 13 aa after Lys213, a second shows a three aa substitution for aa 305-326, and a third shows a 20 aa substitution for aa 1-96, accompanied by a three aa substitution for aa 231-326. RASSF2 is often found down regulated in lung-derived tumor cell lines.