Human UVRAG
Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 953035

Catalog Number: IC9180V
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human UVRAG in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 953035
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human UVRAG synthetic peptide corresponding to sequences between amino acids 260-360 Accession # Q9P2Y5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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	Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

UV radiation resistance-associated gene protein, or UVRAG, is a multi-function protein of 699 amino acids involved in the regulation of cellular pathways implicated in membrane trafficking. UVRAG activates the Beclin-1-PI3KC3 complex, a critical element in the autophagy signaling pathway. Binding studies show that UVRAG and Beclin-1 directly interact via their coiled-coil domains and that Beclin-1 functions as a platform for the formation of the Bcl-2-UVRAG-PI3KC3 complex. Chromosomal aberrations involving the UVRAG gene are associated with left-right axis malformation, and mutations in the gene have been associated with colon cancer.

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