Human RIG-I Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4859G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RIG-I in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human RIG-I Met724-Lys925 Accession # O95786
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

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

RIG-I (Retinoic-acid inducible gene I; also Dead-box protein 58) is a 100 kDa member of the DexH-box family of proteins. It is expressed in smooth muscle cells and endothelium. RIG-I is normally an inactive monomer. Upon Sendai and Hepatitis C virus infection, RIG-I binds to dsRNA, initiating homodimerization and downstream activation of IRF3 and KFκB genes. Human RIG-I is 925 amino acids (aa) in length. It contains two CARD domains (aa 1-172), one helicase ATP-binding region (aa 251-430), and one C-terminal repressor domain (aa 735-925). There are three potential splice variants. One shows an alternate start site at Met204, while another shows deletion of aa 3-80, and a third shows a deletion of aa 36-80 plus 749-925. Over aa 724-925, human RIG-I is 76% aa identical to mouse RIG-I.

PRODUCT SPECIFIC NOTICES

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475