

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human RIPK3/RIP3 in direct ELISAs.                                      |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Rabbit IgG Clone # 1312D                                             |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from cell culture supernatant                           |
| <b>Immunogen</b>                                                                                                                                                                                        | Synthetic peptide containing human RIPK3/RIP3<br>Accession # Q9Y572             |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

RIP3 (Receptor-Interacting Protein 3), also known as RIPK3, is a 518 amino acid (aa), 60 kDa phosphoprotein that contains an N-terminal protein kinase domain and a C-terminal interaction motif with which it binds RIP1. It converts cell response to TNF-α from apoptosis (RIP1 via Fas) to programmed necrosis (RIP1/RIP3) by inducing reactive oxygen species production. Human RIP3 (aa 1-218) shares approximately 74% aa sequence identity with mouse and rat RIP3. Alternately spliced human b (252 aa) and g (231 aa) isoforms diverge after aa 219 and 221, respectively, and are found to antagonize RIP3.

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