

DESCRIPTION

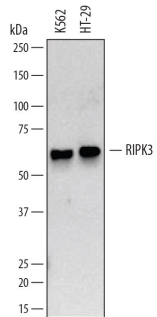
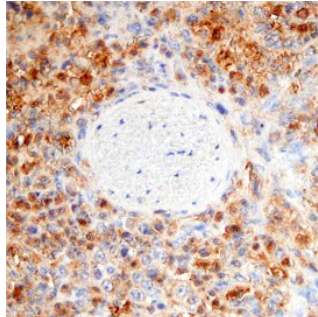
Species Reactivity	Human
Specificity	Detects human RIPK3/RIP3 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 780115
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human RIPK3/RIP3 Met1-Arg218 Accession # Q9Y572
Formulation	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
Western Blot	1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human RIPK3/RIP3 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and HT-29 human colon adenocarcinoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human RIPK3/RIP3 Monoclonal Antibody (Catalog # MAB7604) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for RIPK3/RIP3 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>RIPK3/RIP3 in Human Spleen. RIPK3/RIP3 was detected in immersion fixed paraffin-embedded sections of human spleen using Mouse Anti-Human RIPK3/RIP3 Monoclonal Antibody (Catalog # MAB7604) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm of splenocytes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

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.