# RIPK2 Polyclonal Antibody

**ORDERING INFORMATION**

**Catalog No.:** 19510
**Size:** 100ul
**Format:** Serum

## BACKGROUND

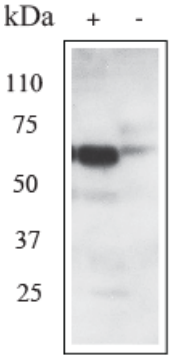
RIPK2 (Receptor Interacting Protein Kinase 2) is the obligate kinase of the NOD2 intracellular pathogen recognition pathway receptor and an upstream kinase activator for NFκB via activation of TAK1. NOD2 is activated by muramyl dipeptide (MDP), a natural component of Gram-positive and Gram-negative bacteria. Upon NOD2 activation, RIPK2 is recruited to NOD and becomes activated via a tyrosine and serine phosphorylation and protein-dependent poly-ubiquitination. Active RIPK2 activates TAK1 and subsequently IKK (IκB kinases) followed by the movement of the NFκB dimer (p50 and p65) to the nucleus to turn on gene transcription. Thus, RIPK2 can play a role during inflammation injury in a number of disease settings.

## SPECIFICATION SUMMARY

**Immunogen:** Phosphopeptide corresponding to the pY474 site of human RIPK2.
**Accession no.:** O43353
**Gene ID:** 8767
**Host Species:** Rabbit
**Specificity:** Human and mouse RIPK2.

## APPLICATIONS

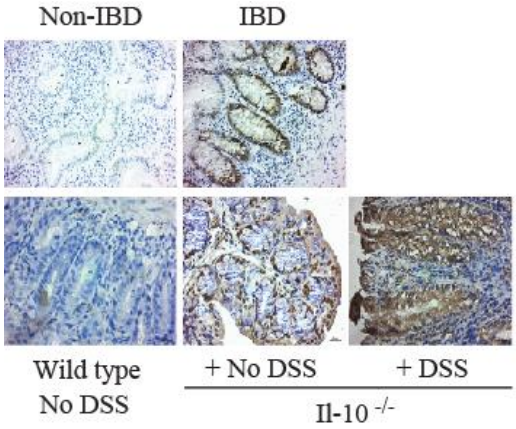
*Immunoblotting*: use at a dilution of 1:500.




Detection of RIPK2 in MDP-stimulated HEK293 cells (+) vs. non-stimulated HEK293 cells (-).

These are recommended dilutions. Endusers should determine optimal dilutions for their applications.

*Immunohistochemistry*: use at a dilution of 1:100.




Detection of active RIPK2 in human (top) and mouse (bottom) tissues. Non-IBD refers to colon sections from non-inflammatory bowel disease (IBD) patients; IBD refers to colon sections from ulcerative colitis (UC) patients. Mouse strain used: B6.129P2-I110tm1Cgn/J, a common model for IBD that presents with spontaneous colitis that is elevated by DSS (dextran sulfate sodium) exposure.

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## STORAGE AND STABILITY

Store at -20°C in appropriate aliquots to avoid multiple freeze-thaw cycles.

## PRODUCT REFERENCES

Salla M et al. *Identification and Characterization of Novel Receptor-Interacting Serine/Threonine-Protein Kinase 2 Inhibitors using structural similarity analysis.* 2018 J Pharmacol Exp Ther 365: 354-367.

Zare A et al. *RIPK2: New Elements in Modulating Inflammatory Breast Cancer Pathogenesis.* 2018 Cancers 10: 184.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures*.

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