## ROSYSTEMS a biotechne brand

Monoclonal Mouse IgG<sub>2A</sub> Clone # 503315 Catalog Number: MAB4678

Species Reactivity	Human/Rat		
Specificity	Detects human and rat Tollip in Western blots.		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 503315		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E. coli</i> -derived recombinant human Tollip Met1-Pro274 Accession # Q9H0E2		
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 either lyophilized or 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 Sample

	Concentration	
Western Blot	1 μg/mL	See Below
DATA		

Western Blot	Detection of Human/Rat Tollip by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and NRK rat normal kidney cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Rat Tollip Monoclonal Antibody (Catalog # MAB4678) followed by HRP- conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Tollip at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.		
PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

## BACKGROUND

Tollip (<u>Toll-interacting protein</u>) is a 28 kDa, cytoplasmic protein that is involved in IL-1 and Toll receptor signaling. It is classified as an adaptor protein that performs multiple functions. It binds both IRAK and Toll receptors, inhibiting constitutive IL-1 and Toll receptor signaling. It also binds to ubiquinated IL-1 RI, directing it to the endosomal degradation compartment. Human Tollip is 274 amino acids(aa) in length. It contains a C2 Ca<sup>++</sup>-binding region (aa 54-154) and a CUE domain (aa 229-270) that binds ubiquitin. One potential splice form exists that shows a deletion of aa 6-33. Human Tollip is 92% identical to mouse Tollip.

## Rev. 2/7/2018 Page 1 of 1



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