Datasheet for ABIN1882142

anti-TOLLIP antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	TOLLIP
Binding Specificity:	AA 221-250, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TOLLIP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This TOLLIP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 221-250 amino acids from the C-terminal region of human TOLLIP.
Clone:	RB4409
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	TOLLIP
Alternative Name:	TOLLIP (TOLLIP Products)

Target Details

Background:	Toll like protein is a component of the signaling pathway of IL1 and Toll like receptors. It inhibits cell activation by microbial products. Tollip recruits IRAK1 to the IL1 receptor complex and inhibits IRAK1 phosphorylation and kinase activity. It oligomerizes and binds to TLR2 and the TLR4-MD2 complex via its C terminus. It exists as a complex with IRAK1 in unstimulated cells. Upon IL1 signaling, Tollip binds to the activated IL1 receptor complex containing IL-1RI, IL-1RacP and the adapter protein MyD88, where it interacts with the TIR domain of IL-1RacP. MyD88 then triggers IRAK1 autophosphorylation, which in turn leads to the dissociation of IRAK1 from Tollip and IL-1RAcP. TOLLIP also interacts with TLR2 and TLR4, TOLLIP overexpression inhibits nuclear factor kappa-B (NFKB) activation in response to lipopolysaccharide and IL1B.
Molecular Weight:	30282
NCBI Accession:	NP_061882
UniProt:	Q9H0E2

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Chen, Choong, Lin, Philp, Wong, Ang, Tan, Loh, Hew, Shah, Druker, Chong, Lim: "Differential expression of novel tyrosine kinase substrates during breast cancer development." in: **Molecular & cellular proteomics : MCP**, Vol. 6, Issue 12, pp. 2072-87, (2007) (PubMed).

Publications

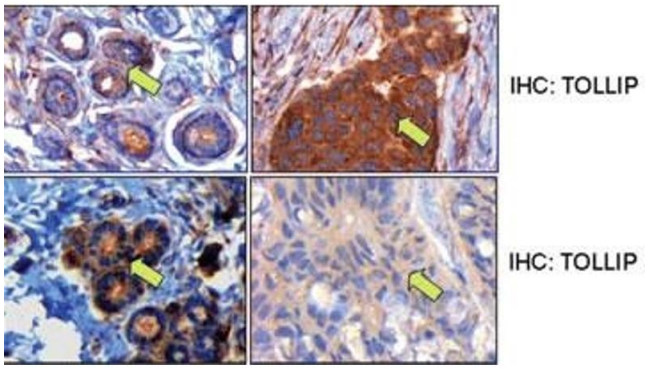
Zhang, Ghosh: "Negative regulation of toll-like receptor-mediated signaling by Tollip." in: **The Journal of biological chemistry**, Vol. 277, Issue 9, pp. 7059-65, (2002) (PubMed).

Bulut, Faure, Thomas, Equils, Arditi et al.: "Cooperation of Toll-like receptor 2 and 6 for cellular activation by soluble tuberculosis factor and Borrelia burgdorferi outer surface protein A lipoprotein: role of Toll-interacting protein and ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 2, pp. 987-94, (2001) (PubMed).

Burns, Clatworthy, Martin, Martinon, Plumpton, Maschera, Lewis, Ray, Tschopp, Volpe: "Tollip, a new component of the IL-1RI pathway, links IRAK to the IL-1 receptor." in: **Nature cell biology**, Vol. 2, Issue 6, pp. 346-51, (2000) (PubMed).

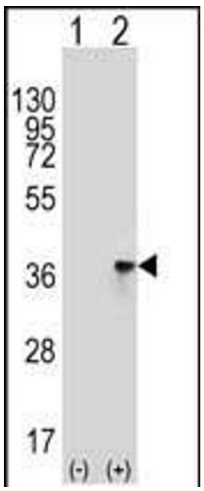
Volpe, Clatworthy, Kaptein, Maschera, Griffin, Ray: "The IL1 receptor accessory protein is responsible for the recruitment of the interleukin-1 receptor associated kinase to the IL1/IL1 receptor I complex." in: **FEBS letters**, Vol. 419, Issue 1, pp. 41-4, (1998) (PubMed).

Images



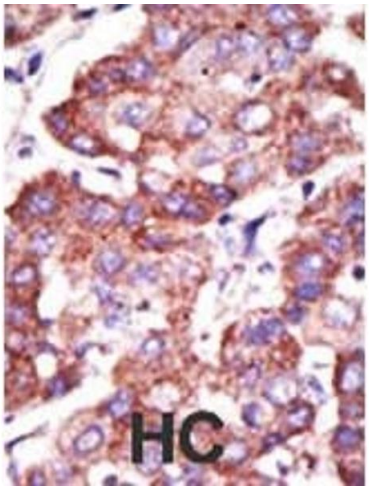
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Middle panels, TOLLIP expression in matched normal and tumor breast samples. Here the TOLLIP stain in the invasive ductal carcinoma cells shows a much stronger signal compared with the normal ductal cells. Bottom panels, TOLLIP expression in matched normal and tumor breast samples. In this case, the signal for TOLLIP in the normal ductal cells is stronger than that in the invasive ductal carcinoma cells.



Western Blotting

Image 2. Western blot analysis of TOLLIP (arrow) using rabbit polyclonal TOLLIP Antibody (ABIN1882142 and ABIN2839205). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TOLLIP gene.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.