

Datasheet: AHP1784

Description:	RABBIT ANTI SIGIRR (C-TERMINAL)
Specificity:	SIGIRR (C-TERMINAL)
Other names:	TIR8
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			10ug/ml
Western Blotting	▪			0.5 - 1ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Species Cross Reactivity	Reacts with: Human Based on sequence similarity, is expected to react with:Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to SIGIRR (CT) was raised by repeated immunisation of with highly purified antigen. Purified IgG was prepared from whole serum by immunoaffinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A synthetic peptide corresponding to 15 amino acids near the carboxy terminus of mouse SIGIRR.
External Database Links	UniProt:

[Q9JLZ8](#) [Related reagents](#)

[Q6IA17](#) [Related reagents](#)

Entrez Gene:

[24058](#) Sigirr [Related reagents](#)

[59307](#) SIGIRR [Related reagents](#)

Synonyms

Tir8

Specificity

Rabbit anti SIGIRR (C-terminal) antibody recognizes the Single Ig IL-1-related receptor, also known as SIGIRR, Single immunoglobulin domain-containing IL1R-related protein, Toll/interleukin-1 receptor 8 or TIR8. SIGIRR is a 409 amino acid ~ 45-90 kDa single pass type III transmembrane glycoprotein, Multiple species of SIGIRR seen in western blotting are achieved through differential glycosylation at four potential glycosylation sites in the SIGIRR ectodomain, mutation at these sites to eliminate glycosylation yields a single band of the predicted size (44 kDa) for unmodified SIGIRR ([Zhao et al. 2015](#)).

SIGIRR is a member of the Toll-like receptor-interleukin 1 receptor superfamily, defined by an intracellular Toll-IL-1R (TIR) domain. SIGIRR acts as a negative regulator of the Toll-like and IL-1R receptor signalling pathways. It interacts with TLR4, TLR5, TLR9 and IL-1R through the extracellular Ig domain, or the intracellular TIR domain. The Ig domain interferes with the heterodimerization of IL-1R while the intracellular TIR domain inhibits both IL-1 and LPS signalling by attenuating the recruitment of receptor-proximal signalling components to TLR4. SIGIRR is expressed in kidney, colon, small intestine, lung, spleen and liver. It is not expressed in brain or muscle.

Rabbit anti SIGIRR antibody has been successfully used for the detection of SIGIRR in both murine and human samples by western blotting ([Zhao et al. 2015](#))

Western Blotting

AHP1784 detects a band of approximately 43kDa in A549 cell lysate

References

1. Zhao, J. *et al.* (2015) Human Colon Tumors Express a Dominant-Negative Form of SIGIRR That Promotes Inflammation and Colitis-Associated Colon Cancer in Mice. [Gastroenterology. 149 \(7\): 1860-1871.e8.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M279722:160115'

Printed on 21 Jun 2018

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