

Datasheet for 600-401-EK1**SIGIRR Antibody****Overview**

Description:	Anti-SIGIRR (RABBIT) Antibody - 600-401-EK1
Item No.:	600-401-EK1
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	SIGIRR is a member of the Toll-like receptor-interleukin 1 receptor superfamily. Members of this family are defined by the presence of an intracellular Toll-IL-1R (TIR) domain. The Toll-like receptors (TLRs) are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. SIGIRR was originally identified through database analysis and was shown to have only one Ig domain as opposed to the normal three Ig folds seen in the TIR family. Similar to ST2, another TIR family member, it has been shown to negatively regulate IL-1 receptor and Toll-like receptor signaling. However, SIGIRR inhibits TLR-IL-1R signaling by dimerizing with TLR4, TLR5, TLR9, and IL-1R. It also associates with the down-stream TLR signaling proteins IRAK and TRAF6 in an IL-1-dependent fashion.
Synonyms:	SIGIRR Antibody, TIR8, Single Ig IL-1-related receptor, Single Ig IL-1R-related molecule, TIR8
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SIGIRR
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SIGIRR antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 15 amino acids at the C-terminus of human SIGIRR.
Purity/Specificity:	Anti-SIGIRR Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SIGIRR from other sources has not been determined.
Relevant Links:	• UniProtKB - Q6IA17 • GeneID - 59307 • NCBI - CAG33619

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-SIGIRR Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 46 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
WB:	0.5-2 µg/mL
Other:	Immunocytochemistry: 10 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

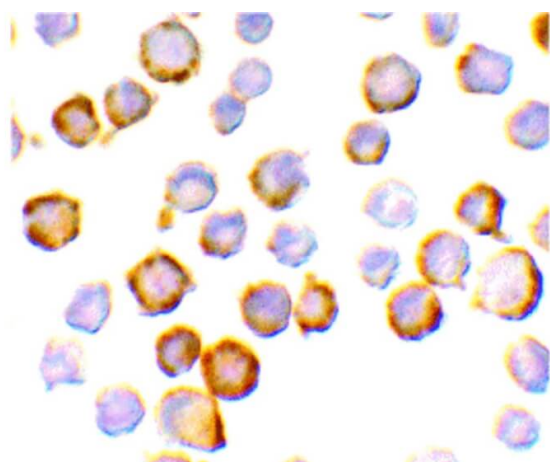
Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

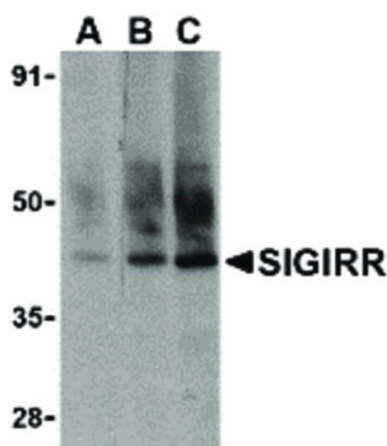
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunocytochemistry of SIGRR antibody. Cell Type: A549 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SIGRR antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SIGRR is located in the cell membrane. Staining: SIGRR is stained brown with hematoxylin purple counterstain.



Western Blot

Western Blot of SIGRR antibody in A549 cell lysate. Lane A: SIGRR antibody at 0.5 µg/mL. Lane B: SIGRR antibody at 1 µg/mL. Lane C: SIGRR antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: SIGRR antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 46 kDa, 42 kDa for SIGRR. Other band(s): SIGRR splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.