Datasheet for ABIN7600549

anti-2B4 antibody (AA 20-372)

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Overview

Quantity:	100 µg
Target:	2B4 (CD244)
Binding Specificity:	AA 20-372
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 2B4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-2B4/Cd244 Antibody Picoband®
Immunogen:	E.coli-derived rat 2B4/Cd244 recombinant protein (Position: Q20-Q372).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-2B4/Cd244 Antibody Picoband® (ABIN7600549). Tested in ELISA, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	2B4 (CD244)
Alternative Name:	Cd244 (CD244 Products)
Background:	Synonyms: Natural killer cell receptor 2B4, Cd244, LOC685808 Tissue Specificity: Expressed in natural killer (NK) cells, T cells and dendritic cells. Background: CD244 (Cluster of Differentiation 244) is a human protein encoded by the CD244 gene. It is also known as Natural Killer Cell Receptor 2B4. Tangye et al. (1999) mapped the 2B4 gene to 1q22. Suzuki et al. (2008) identified a functional single-nucleotide polymorphism (SNP) in the CD244 gene that contributes to rheumatoid arthritis susceptibility. Functional analysis by Boles et al. (1999) demonstrated that engagement of 2B4 with specific antibody activates NK cytolytic activity. Using recombinant human NK cell-activating ligand 2B4 fused to domains 3 and 4 of rodent Cd4 and flow cytometric analysis, Brown et al. (1998) demonstrated that CD48 binds to 2B4. Watzl et al. (2000) showed that antibody-mediated cross-linking of 2B4 leads to its rapid tyrosine phosphorylation, which is necessary for 2B4-mediated killer cell activity.
Molecular Weight:	50 kDa
Gene ID:	64025

Application Details

Application Notes:	"Western blot, 0.25-0.5 µg/mL, Rat ELISA, 0.1-0.5 µg/mL, "1. Boles, K. S., Nakajima, H., Colonna, M., Chuang, S. S., Stepp, S. E., Bennett, M., Kumar, V., Mathew, P. A. Molecular characterization of a novel human natural killer cell receptor homologous to mouse 2B4. Tissue Antigens 54: 27-34, 1999. 2. Brown, M. H., Boles, K., van der Merwe, P. A., Kumar, V., Mathew, P. A., Barclay, A. N. 2B4, the natural killer and T cell immunoglobulin superfamily surface protein, is a ligand for CD48. J. Exp. Med. 188: 2083-2093, 1998. 3. Suzuki, A., Yamada, R., Kochi, Y., Sawada, T., Okada, Y., Matsuda, K., Kamatani, Y., Mori, M., Shimane, K., Hirabayashi, Y., Takahashi, A., Tsunoda, T., Miyatake, A., Kubo, M., Kamatani, N., Nakamura, Y., Yamamoto, K. Functional SNPs in CD244 increase the risk of rheumatoid arthritis in a Japanese population. Nature Genet. 40: 1224-1229, 2008. 4. Tangye, S. G., Lazetic, S., Woollatt, E., Sutherland, G. R., Lanier, L. L., Phillips, J. H. Cutting edge: human 2B4, an activating NK cell receptor, recruits the protein tyrosine phosphatase SHP-2 and the adaptor signaling protein SAP. J. Immun. 162: 6981-6985, 1999. 5. Watzl, C., Stebbins, C. C., Long, E. O. Cutting edge: NK cell inhibitory receptors prevent tyrosine phosphorylation of the activation receptor 2B4 (CD244). J. Immun. 165: 3545-3548, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.