

**Rabbit Anti-CD244/2B4 Polyclonal: RC0418**

**Intended Use:** For Research Use Only

**Description:** CD244, known as 2B4, is a 38 kD type I transmembrane protein. It is a member of the CD2 subset of the immunoglobulin superfamily (IgSF) molecules. CD244 is expressed on NK cells, a subset of T cells (including most CD8+ T cells and  $\gamma/\delta$  T cells), monocytes, basophils, and eosinophils. CD48 is the ligand of CD244. It has been reported that ligation of human CD244 results in enhanced NK cell cytotoxicity and cytokine production. Recent studies have shown that human CD244, like murine CD244, has both activating and inhibitory functions, which are dependent on the density of surface 2B4 expression, degree of ligation, and the level of the adaptor molecule SAP expression.

**Specifications:**

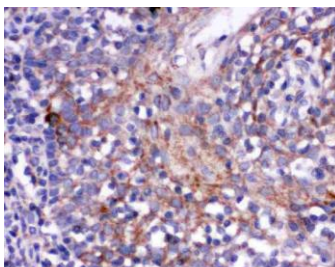
Clone: Polyclonal  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: A synthetic peptide corresponding to a sequence at the C-terminus of human CD244 (357-370aa RLSRKELENFDVYS)  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
CD244/2B4 Polyclonal Concentrated	RM0418	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: Overnight @ 4°C  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD244 using DAB

**References:**

1. Effects of conventional immunosuppressive treatment on CD244+ (CD28null) and FOXP3+ T cells in the inflamed muscle of patients with polymyositis and dermatomyositis. Pandya JM, JM, et al. Arthritis Res Ther. Apr 1;18:80, 2016.
2. Simultaneous TCR and CD244 signals induce dynamic downmodulation of CD244 on human antiviral T cells. Pacheco Y, et al. J Immunol. Sep 1;191(5):2072-81, 2013.
3. 2B4 (CD244) is involved in eosinophil adhesion and chemotaxis, and its surface expression is increased in allergic rhinitis after challenge. El-Shazly AE, et al. Int J Immunopathol Pharmacol. 2011 Oct-Dec;24(4):949-60, 2011.

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Rev. A