

Basic Information

Product Name	Anti-CD11c/Integrin Alpha X/ITGAX Antibody	
Gene Name	ITGAX	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E. coli-derived human CD11c recombinant protein (Position: S161-T342).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	128KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

CD11c, also known as Integrin, alpha X (complement component 3 receptor 4 subunit) (ITGAX), is a gene that encodes for CD11c. This gene encodes the integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. Two transcript variants encoding different isoforms have been found for this gene.

Selected Validation Data

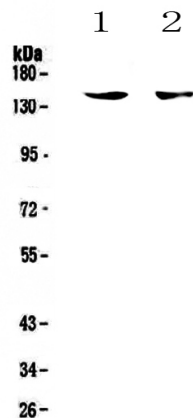


Figure 1. Western blot analysis of CD11c using anti-CD11c antibody (A00357-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse spleen tissue lysate, Lane 2: mouse thymus tissue lysate. -CD11c antigen affinity purified polyclonal antibody (Catalog # A00357-1) at 0.5 μ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CD11c at approximately 150KD. The expected band size for CD11c is at 128KD.

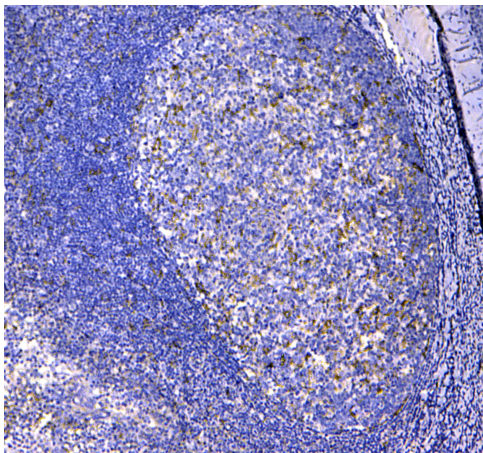


Figure 2. IHC analysis of CD11c using anti-CD11c antibody (A00357-1). CD11c was detected in paraffin-embedded section of human tonsil tissue. anti-CD11c Antibody (A00357-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.