Datasheet for ABIN349633

anti-Interleukin 17a antibody

3 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	Interleukin 17a (IL17A)
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Interleukin 17a antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Neutralization (Neut), Radioimmunoassay (RIA)

Product Details

Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant rat IL17-A protein. Immunogentype:Recombinant
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	Interleukin 17a (IL17A)
Alternative Name:	IL-17A (IL17A Products)
Background:	Rat IL17-A (also known as Interleukin-17, Cytotoxic T-lymphocyte-associated antigen 8 and

Target Details

	CTLA-8) is a proinflammatory cytokine member of a six-species family of proteins (IL-17A-17F). Rat IL-17A protein is a homodimer consisting of two 134 amino acids peptides. IL-17A is secreted mainly by activated CD4+ and CD8+ T lymphocytes and acts through its receptor, IL-17R, to induce the expression of many mediators of inflammation, most strikingly, those that are involved in the proliferation, maturation and chemotaxis of neutrophils. Elevated levels of IL-17A have been associated with several conditions, including rheumatoid arthritis, airway inflammation, allograft rejection, inflammatory bowel disease, psoriasis, cancer and multiple sclerosis. There is 58% identity between the amino acid sequence of human and rat IL-17A. Synonyms: Interleukin-17, Cytotoxic T-lymphocyte-associated antigen 8 and CTLA-8
Gene ID:	301289
UniProt:	Q61453

Application Details

Application Notes:	This purified antibody has been tested for use in ELISA and western blotting. Reactivity is also expected in neutralizations, radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/µl by the LAL method. The recombinant immunogen is a non-glycosylated homodimer joined by disulfide bonds having a molecular mass of 30.0 kDa. By western blot from a reducing gel expect a band approximately 15.0 kDa in size corresponding to rat IL17-A protein in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Storage:	4 °C

Publications

Product cited in:	Kirman, Jenkins, Fowler, Whelan: "Naturally occurring antibodies to epithelial cell adhesion molecule (EpCAM)." in: **Digestive diseases and sciences**, Vol. 48, Issue 12, pp. 2306-9, (2004) (

Publications

PubMed).

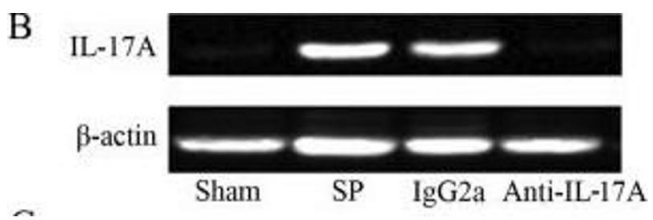
Winter, Nagtegaal, van Krieken, Litvinov: "The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology." in: **The American journal of pathology**, Vol. 163, Issue 6, pp. 2139-48, (2003) (PubMed).

Balzar, Briaire-de Bruijn, Rees-Bakker, Prins, Helfrich, de Leij, Riethmüller, Alberti, Warnaar, Fleuren, Litvinov: "Epidermal growth factor-like repeats mediate lateral and reciprocal interactions of Ep-CAM molecules in homophilic adhesions." in: **Molecular and cellular biology**, Vol. 21, Issue 7, pp. 2570-80, (2001) (PubMed).

Balzar, Bakker, Briaire-de-Bruijn, Fleuren, Warnaar, Litvinov: "Cytoplasmic tail regulates the intercellular adhesion function of the epithelial cell adhesion molecule." in: **Molecular and cellular biology**, Vol. 18, Issue 8, pp. 4833-43, (1998) (PubMed).

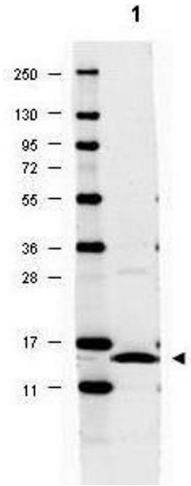
Litvinov, Bakker, Gourevitch, Velders, Warnaar: "Evidence for a role of the epithelial glycoprotein 40 (Ep-CAM) in epithelial cell-cell adhesion." in: **Cell adhesion and communication**, Vol. 2, Issue 5, pp. 417-28, (1995) (PubMed).

Images



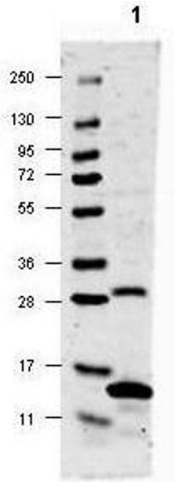
Western Blotting

Image 1. Expression of atrial fibrillation (AF)-related pro-inflammatory cytokines at 4 days after surgery. (A) Fold mRNA expression of interleukin (IL)-6, IL-1β, transforming growth factor-β1 (TGF-β1) and IL-17A. (B) Protein expression of IL-17A detected by western blot analysis. (C) Quantitative analysis of IL-17A protein expression. *P<0.05 and **P<0.01 vs. Sham. #P<0.05 and ##P<0.01 vs. IgG2a. Sham, sham-operated rats, SP, rats with sterile pericarditis. - figure provided by CiteAb. Source: PMID25955429



Western Blotting

Image 2. Western blot using anti-IL-17A antibody shows detection of mouse recombinant IL-17A protein (arrowhead, lane 1). Approximately 2 µg of recombinant protein was loaded onto the gel. Primary antibody was used at a 1:1,000 dilution. The membrane was washed and reacted with a 1:20,000 dilution of 649 conjugated Gt-a-Rabbit IgG . Molecular weight estimation was made by comparison to prestained MW markers indicated at the left. Other detection systems will yield similar results.



Western Blotting

Image 3. Western blot using anti-IL-17A antibody shows detection of rat recombinant IL-17A protein (lane 1). Approximately 2 µg of recombinant protein was loaded onto the gel. Primary antibody was used at a 1:1,000 dilution. The membrane was washed and reacted with a 1:20,000 dilution of 649 conjugated Gt-a-Rabbit IgG . Molecular weight estimation was made by comparison to prestained MW markers indicated at the left. Other detection systems will yield similar results.