

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

10-4120: Monoclonal Antibody to CLEC4E (Clone: ABM42C6)

Clonality: Monoclonal **Clone Name:** ABM42C6 Application: FACS.WB Reactivity: Human Gene: CLEC4E Gene ID: 26253 **Uniprot ID:** Q9ULY5 **Purified** Format:

Alternative Name: CLEC4E, CLECSF9, MINCLE, UNQ218/PRO244

Isotype: Mouse IgG1 Kappa

Immunogen Information: A full length human CLEC4E protein was used as the immunogen for this antibody.

Description

CLEC4E (C-type lectin domain family 4, member E), also called as Mincle, is a type II transmembrane C-type lectin receptor that specifically binds to the cord factor TDM (trehalose-6,6-dimycolate), a unique glycolipid of mycobacterial cell-surface components, and activates immune cells to confer adjuvant activity. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signaling, glycoprotein turnover, and roles in inflammation and immune response. CLEC4E is mainly expressed in myeloid cells, such as macrophages and neutrophils and possesses a single carbohydrate-recognition domain (CRD) in the extracellular region. It is associated with FcRgamma chain, an immunoreceptor tyrosine-based activation motif (ITAM)-containing adaptor, and acts as an activating receptor that senses damaged cells. CLEC4E is also a downstream target of CCAAT/enhancer binding protein (C/EBP), beta (CEBPbeta) and may play a role in inflammation.

Product Info

Amount: 25 μg / 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition : Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 μg/ml, Flowcytometric analysis: 0.5-1 μg/10⁶ cells



9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

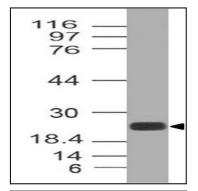


Figure-1: Western blot analysis of CLEC4E. Anti-CLEC4E antibody (Clone: ABM42C6) was tested at 2 μ g/ml on THP-1 lysate.

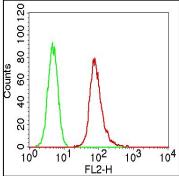


Figure-2: cell surface flowcytometric analysis of Anti-CLEC4E in A431 cells using 0.5 μ g/10^6 cells of Anti-CLEC4E (clone: ABM42C6) . Green represent isotype control and red represent Anti-CLEC4E antibody (10-4120 ABEOMICS). Goat anti-mouse PE conjugate was used as the secondary antibody.

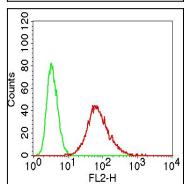


Figure-3: cell surface flowcytometric analysis of Anti-CLEC4E in HeLa cells using 0.5 μ g/10^6 cells of Anti-CLEC4E (clone: ABM42C6) . Green represent isotype control and red represent Anti-CLEC4E antibody (10-4120 ABEOMICS). Goat anti-mouse PE conjugate was used as the secondary antibody.