

10-4030: Monoclonal Antibody to IL-23R (Clone: ABM25G4)

Clonality :	Monoclonal
Clone Name :	ABM25G4
Application :	FACS, WB
Reactivity :	Human
Gene :	IL23R
Gene ID :	149233
Uniprot ID :	Q5VWK5
Format :	Purified
Alternative Name :	Interleukin-23 receptor, IL-23 receptor, IL-23R
Isotype :	Mouse IgG1, Kappa
Immunogen Information :	A partial length recombinant protein (a.a 250-450) of IL-23R was used as the immunogen for this antibody.

Description

IL-23, a member of the IL-12 cytokine family, is composed of a p40 subunit, which is shared with IL-12, and a p19 subunit, with an approximate molecular weight of 60 kDa. IL-23 is produced by activated dendritic cells and macrophages in response to microorganisms. IL-23 promotes Th17 cells producing TNF- α , IL-17, IL-6, IL-22, GM-CSF, and other novel factors, which are associated with the induction of autoimmune inflammation. IL-23 is essential for Th17 differentiation, expansion, and survival by binding to its receptor, thereby activating the signaling pathway. Many studies revealed that the IL-23/Th17 pathway is implicated in the pathophysiology of various autoimmune diseases, such as autoimmune arthritis, primary biliary cirrhosis, and inflammatory bowel disease.

Product Info

Amount :	25 μ g / 100 μ g
Purification :	Protein G Chromatography
Content :	25 μ g in 50 μ l/100 μ g in 200 μ l 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: 1-2 μ g/ml, Flowcytometric analysis: 2-4 μ g/10⁶ cells

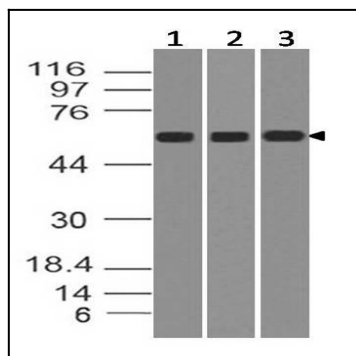


Figure-1: : Western blot analysis of IL-23R. Anti-IL-23R antibody (Clone: ABM25G4) was used at 1 µg/ml on (1) MCF-7, (2) THP1 and (3) A431 lysates.

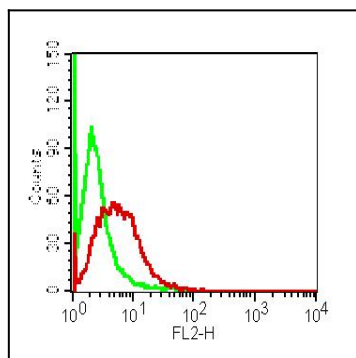


Figure-2: Cell surface flow analysis of Anti-IL-23R antibody in K562 cell line using 2 µg/10⁶ Cells of Anti-IL23R antibody (Clone: ABM25G4). Green represent Isotype control and red represent Anti-IL23R antibody (10-4030 Abeomics). Goat Anti-mouse PE conjugated was used as the secondary antibody.