

## anti-human Interleukin-12 p40 (anti-hIL-12 p40)

monoclonal antibody ITA9p40 to Interleukin-12 p40 (human)

**Cat-No:** 21450121

100 µg in 100 µl

**Clone:** ITA9p40

**Specificity:** The monoclonal antibody ITA9p40 recognizes human IL-12 p40 in Western blot and ELISA.

**Isotype:** Mouse IgG

**Form:** Purified from hybridoma culture supernatant by Protein G affinity chromatography.

**Purity:** The purity is > 95 % as determined by SDS-PAGE.

**Physical state:** liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at -20 °C. Avoid freeze/thaw cycles.

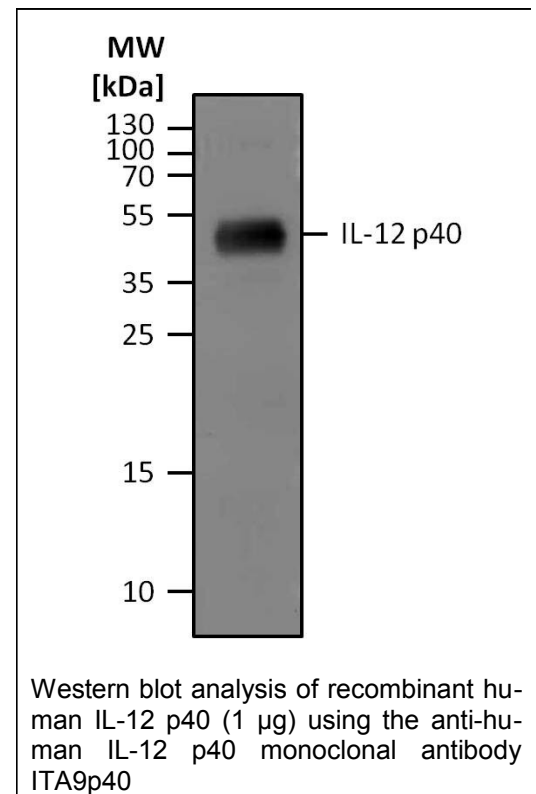
**Application:** Western blot, ELISA

Our lab uses the recommended concentration of 0.1 - 10 µg/ml for Western blot. But it is up to the user to determine the optimal concentration for Western blot and ELISA.

**Background:** Interleukin-23A (IL-23) is a heterodimeric cytokine composed of the subunits IL-23 and the p40 subunit of interleukin-12 (IL-12B). IL-23 belongs to the IL-12 family and is produced by antigen presenting cells. IL-23 using IL12RB1 and IL-23R (specific for IL-23) can activate STAT and NF-κB pathways and stimulate the production of interferon-gamma. IL-23 is known to take a vital part in the inflammation process and is associated with auto immune diseases. However, unlike IL12 which acts primarily on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink, and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for research only. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.



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