

## Product datasheet for **PM1205P**

### IL12a (alpha + beta) Rat Monoclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	<b>Sandwich ELISA:</b> In a Sandwich ELISA (assuming 100µl/well), a concentration of 2.0-4.0 µg/ml of this antibody will detect at least 1000 pg/ml of recombinant Murine IL-12 when used with Biotinylated antigen affinity purified anti-murine IL-12 (Cat.-No PP1110B) as the detection antibody at a concentration of approximately 1.0-2.0 µg/ml. <b>Western Blot:</b> To detect murine IL-12 by Western Blot analysis this antibody can be used at a concentration of 2.0-4.0 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mIL-12 is 1.0-2.0 ng/lane, under reducing conditions and 0.25-0.50 ng/lane, under non-reducing conditions. <b>Neutralization:</b> To yield one-half maximal inhibition [ND50] of the biological activity of Murine IL12 (2.0 ng/ml), a concentration of 0.16-0.24 µg/ml of this antibody is required.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CHO cell-derived, 75.0 kDa Recombinant Murine IL-12
Specificity:	Detects Mouse IL-12. Other species not tested.
Formulation:	PBS without preservatives State: Azide Free State: Lyophilized (sterile filtered) purified Ig fraction from Ascites
Reconstitution Method:	Restore in sterile water to a concentration of 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Gene Name:** interleukin 12a

**Database Link:** [Entrez Gene 16159 Mouse P43431](#)

**Background:** Interleukin 12 (IL12) can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine activated killer cells, and stimulate the production of IFN gamma by resting PBMC. IL12 induces IFN gamma, TNF alpha production in T and NK cells; costimulation of PBL proliferation; proliferation/differentiation of TH1 T lymphocytes. It is downregulated by IL10; homodimeric p40 antagonistic to functional p70 heterodimer. IL12R beta 1 binds p40 but when dimeric with IL12R beta 2 binds p35.

**Synonyms:** IL-12A, IL-12 subunit p35, NKSF1, CLMF p35