

Anti-IL-6 Antibody [AH35-32]

EM170413



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	ELISA(Det), ICC, IHC-P
Molecular Wt:	24 kDa
Clone number:	AH35-32

Description: Interleukin-6, or IL-6, is a multifunctional protein, 212 amino acids in length, that plays critical roles in host defense, immune response and hematopoiesis. IL-6 is constitutively expressed by epidermal Langerhans cells and its expression is induced in stimulated keratinocytes. IL-6, IL-1 β and TNF α act as endogenous pyrogens, regulating the fever response to bacterial invasion. The IL-6 receptor is a trimeric complex composed of an IL-6-specific α chain and a homodimer of the gp130 glycoprotein common to the IL-6, IL-11, CNTF, OSM and LIF receptors. Stimulation with IL-6 leads to gp130 homodimerization and the activation of associated kinases JAK1 and JAK2. Once activated, JAK1 and JAK2 phosphorylate Stat3, causing its nuclear translocation and transcription of Stat3-responsive genes. IL-6 has also been shown to activate the Ras/MAP kinase pathway, which regulates NFIL6 transcription.

Immunogen: recombinant protein

Positive control: HeLa, A549, human spleen tissue, human liver tissue.

Subcellular location: Secreted.

Database links: SwissProt: P05231 Human | P08505 Mouse | P20607 Rat

Recommended Dilutions:

ICC	1:50-1:200
IHC-P	1:50-1:200
ELISA	1:5,000-1:10,000

Storage Buffer: 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.19% Sodium Azide.

Storage Instruction: Store at -20 °C. Stable for 12 months from date of receipt.

Purity: Protein G affinity purified.



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Images

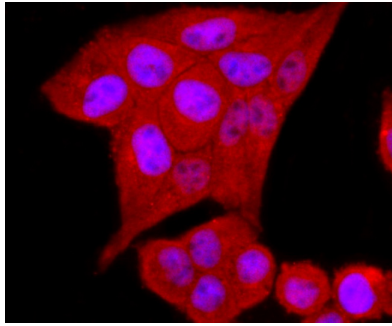


Fig1: ICC staining IL6 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

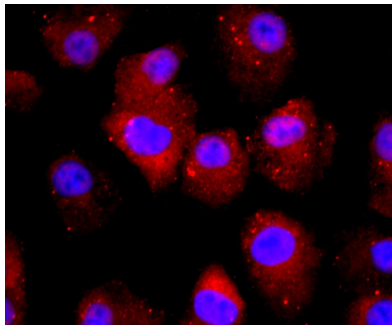


Fig2: ICC staining IL6 in A549 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

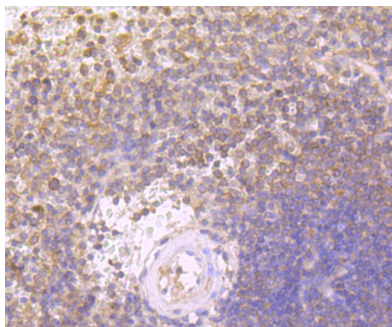


Fig3: Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IL6 antibody. Counter stained with hematoxylin.

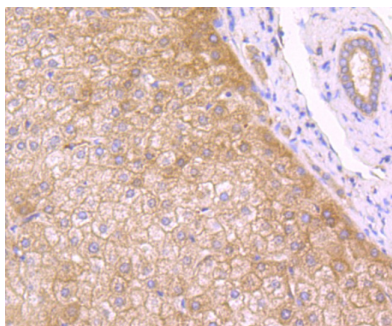


Fig4: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-IL6 antibody. Counter stained with hematoxylin.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yang N et al. TNF- α receptor antagonist attenuates isoflurane-induced cognitive impairment in aged rats. *Exp Ther Med* 12:463-468 (2016).
2. Faustino-Rocha AI et al. Effects of lifelong exercise training on mammary tumorigenesis induced by MNU in female Sprague-Dawley rats. *Clin Exp Med* N/A:N/A (2016).

