IL-6 Ab

Cat.#: DF6087  Concn.: 1mg/ml  Mol.Wt.: 24kDa
Size: 100ul,200ul  Source: Rabbit  Clonality: Polyclonal


Reactivity: Human, Mouse, Rat

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity: IL-6 Ab detects endogenous levels of total IL-6.

Immunogen: A synthesized peptide derived from human IL-6, corresponding to a region within the internal amino acids.

Uniprot: P05231

Description: Interleukin-6 (IL-6) is a multifunctional cytokine with a wide variety of biological functions. IL-6 is implicated in the final differentiation of B-cells into immunoglobulin-secreting cells (1), myeloma and plasmacytoma growth (2), nerve cell differentiation, and activation of hepatocytes and mitogen-stimulated helper T cells (3). Upon activation, IL-6 induces at least three major signaling pathways: JAK/STAT, PI-3 kinase and MAPK (4,5).

Subcellular Location: Secreted.

Similarity: Belongs to the IL-6 superfamily.

Storage Condition and Buffer: Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from various samples, using IL-6 Ab.
Lane 1: Serum starvation treated 293, blocked with antigen-specific peptides,
Lane 2: Serum starvation treated 293,
Lane 3: H2O2 treated HepG2 cells.
Western blot analysis of extracts from rat spleen, using IL-6 Ab.

DF6087 at 1/200 staining mouse spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

DF6087 at 1/200 staining human breast cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

DF6087 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (DF6087 1:200) and mouse anti-beta tubulin Ab (T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG (H+L) Ab (Red) and an AlexaFluor488 conjugated goat anti-mouse IgG (H+L) Ab (Green) were used as the secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.