

Dog interleukin 6 (interferon, beta 2) ELISA Kit | IL6 elisa kit

Dog Interleukin 6, IL-6 ELISA Kit

CATALOG #
AAA80332

REACTIVITY
Dog

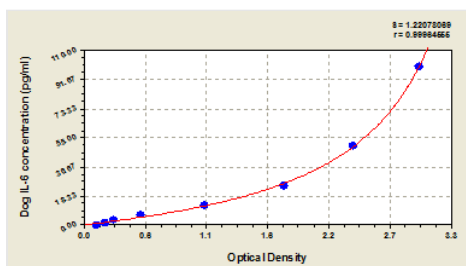
PRODUCT SYNONYMS

interleukin 6 (interferon; beta 2); Dog Interleukin 6; IL-6 ELISA Kit; BSF2; HGF; HSF; IFNB2; IL-6; B cell stimulatory factor-2; B-cell differentiation factor; CTL differentiation factor; OTTHUMP00000158544; hybridoma growth factor; interleukin 6; interleukin BSF-2; IL6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Dog
Specificity	This assay has high sensitivity and excellent specificity for detection of Dog IL6. No significant cross-reactivity or interference between Dog IL6 and analogues was observed.
Sequence Length	207
Samples	Serum, plasma, tissue homogenates
Detection Range	1.56 pg/ml-100 pg/ml
Sensitivity	0.39 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Immunity
Protein Biological Process 3	Acute phase
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL6 elisa kit	Introduction: IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. In terms of host response to a foreign pathogen, IL-6 has been shown, in mice, to be required for resistance against the bacterium, Streptococcus pneumoniae. IL-6 is also a "myokine," a cytokine produced from muscle, and is elevated in response to muscle contraction. It is significantly elevated with exercise, and precedes the appearance of other cytokines in the circulation. During exercise, it is thought to act in a hormone-like manner to mobilize extracellular substrates and/or augment substrate delivery (Petersen, J Appl Physiol 2005). Additionally, osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. IL-6's role as an anti-inflammatory cytokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IL-6. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for IL-6 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain IL-6, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of IL-6 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54607208
NCBI GeneID	403985
NCBI Accession #	NP_001003301.1
NCBI GenBank Nucleotide #	NM_001003301.1
UniProt Accession #	P41323; Q9MYZ7
Molecular Weight	22,945 Da
NCBI Official Full Name	interleukin-6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	IL-6
NCBI Protein Information	interleukin-6
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6
UniProt Entry Name	IL6_CANFA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.