

Product Datasheet

Human IL-6 ELISA Kit (Colorimetric)

NBP2-31051

Unit Size: 1 Kit

Storage is content dependent.

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NBP2-31051**Human IL-6 ELISA Kit (Colorimetric)**

Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage is content dependent.
Product Description	
Description	IL-6 ELISA Kit (NBP2-31051) is provided as 2 x 96 well format and it is good for 192 tests. This kit measures free IL-6 in the supernatant of activated cells and its detection is based on sandwich ELISA principle. An anti-IL-6 monoclonal antibody is coated on a plate which then captures free IL-6. The bound IL-6 is detected by adding a second, biotinylated, monoclonal IL-6 antibody followed by HRP-conjugated streptavidin. ABTS substrate is then added and the concentration is determined by colorimetric detection in an ELISA plate reader.
Gene ID	3569
Gene Symbol	IL6
Species	Human
Specificity/Sensitivity	Specific for free human IL6 in cell supernatant of activated cells.
Kit Components	100X Capture Antibody* 250 µl, 100X Detecting Antibody* 250 µl, 20X Wash Buffer 50 ml, Coating Buffer 25 ml, 5X ELISA Buffer 30 ml, 100X Streptavidin-HRP 250 µl, ABTS Substrate 2 x 12 ml, Recombinant IL-6 Standard 2 vials lyoph (0.1ug/vial), 96 well Strip Plates 2
Notes	Additional items required for the ELISA (not included in the IL-6 ActivELISA Module): 96-well ELISA plate reader
Standard Curve Range	15.6-1000 pg/ml
Sensitivity	2 pg/ml
Assay Type	Sandwich ELISA
Suitable Sample Type	Cell supernatant
Sample Volume	0.1 ml
Product Application Details	
Applications	ELISA
Recommended Dilutions	ELISA
Application Notes	Human IL-6 ActivELISA For the detection of human IL-6. The Human IL-6 ActivELISA(TM) Kit measures free IL-6 in the supernatant of activated cells. Standard protocols for detecting IL-6 activity include ELISA and Western Blot. The IL-6 ActivELISA(TM) can be completed in one day using a sandwich ELISA protocol. An anti-IL-6 monoclonal antibody is coated on a plate which then captures free IL-6. The bound IL-6 is detected by adding a second, biotinylated, monoclonal IL-6 antibody followed by HRP-conjugated streptavidin. ABTS substrate is then added and the concentration is determined by colorimetric detection in an ELISA plate reader.

Publications

Ji L, Hou X, Liu W et al. Paeoniflorin inhibits activation of the IRAK1-NF-kB signaling pathway in peritoneal macrophages from lupus-prone MRL/lpr mice *Microb. Pathog.* 2018-08-24 [PMID: 30149133] (ELISA, Mouse)

Deleon-Pennell KY, Ero OK, Ma Y et al. Glycoproteomic Profiling Provides Candidate Myocardial Infarction Predictors of Later Progression to Heart Failure *ACS Omega* 2019-01-31 [PMID: 30729226] (ELISA, Human)

Chiu Chun-Hung, Chyau Charng-Cherng, Chen Chin-Chu et al. Erinacine A-Enriched *Hericium erinaceus* Mycelium Produces Antidepressant-Like Effects through Modulating BDNF/PI3K/Akt/GSK-3B Signaling in Mice. *International Journal of Molecular Sciences* 2018-01-01 [PMID: 29364170] (ELISA, Mouse)

Vossenkamper A, Marches O, Fairclough PD et al. Inhibition of NF-kB signaling in human dendritic cells by the enteropathogenic *Escherichia coli* effector protein NleE. *J Immunol.* 2010-10-01 [PMID: 20833837] (Human)

Details:

Nuclear and cytosolic extracts from monocyte derived human dendritic cells in the presence of EPEC LPS, Fig 3D.

Kondo A, Yamashita T, Tamura H et al. Interferon-gamma and tumor necrosis factor-alpha induce an immunoinhibitory molecule, B7-H1, via nuclear factor-kappaB activation in blasts in myelodysplastic syndromes. *Blood.* 2010-08-19 [PMID: 20472834]

Details:

NF-kB/p65 ActivELISA (IMK-503) kit and Nuclear extraction kit (10081K). SKM-1 leukemic cells were separated into cytoplasmic and nuclear fractions then subject to western blot analysis, Fig 2A &B.



Procedures

MSDS (NBP2-31051)

Material Safety Data Sheet for Sodium Azide

Hazard Information

Chemical Name Sodium Azide

Chemical Formula NaN_3

CAS Number 26628-22-8

EEC-No 247-852-1

Hazard Identification

Very toxic if swallowed. Contact with acids liberates very toxic gas.

First Aid Measures

Eye Contact Irrigate thoroughly with water for at least 15 minutes. Seek medical advice.

Skin Contact Wash skin thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing and wash before re-use. In severe cases, obtain medical attention.

Inhalation Remove from exposure, rest and keep warm. In severe cases, seek medical advice.

Ingestion Wash out mouth thoroughly with water and give plenty of water to drink. Seek medical advice.

Accidental Release Measures

Wear appropriate protective clothing. Inform others to keep a safe distance. Spread soda ash liberally over spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

Handling and Storage

Handling Avoid prolonged contact with copper or lead, especially in drainage systems or mercury and other heavy metals which may result in the formation of explosive azides. Under no circumstances eat, drink or smoke while handling this material. Wash hands thoroughly after working with this material. Contaminated clothing should be removed and washed before re-use.

Exposure Controls / Personal Protection

Respirator Dust respirator

Ventilation Extraction hood

Gloves Rubber or plastic

Eye Protection Lab goggles or face shield

Other Precautions Plastic apron, sleeves, boots - if handling large quantities.

Physical and Chemical Properties

Form Liquid

Color Colorless

Odor Odorless

Melting Point No data available

Boiling Temperature No data available

Density No data available

Vapor Pressure No data available

Solubility in Water Very soluble

Flash Point No data available

Explosion limits No data available

Ignition Temperature No data available

Stability and Reactivity

Stable unless heated.

Slow reaction at ambient temperature unless water contains dissolved carbon dioxide. Decomposes violently with chromyl chloride. Contact with acids liberates highly toxic gas: forms readily detonable salts with many materials, particularly heavy metals.

Toxicological Information



After ingestion, irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract. Danger of skin absorption.

Disposal Considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to chemical disposal company. Rinse out empty containers thoroughly before disposal.

Other Information

The information contained in this material safety datasheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. Novus Biologicals shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety data sheet.

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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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