

# Product Datasheet

## Human CCL20/MIP-3 alpha ELISA Kit (Colorimetric) NBP2-31049

Unit Size: 1 Kit

Storage is content dependent.

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**NBP2-31049**

## Human CCL20/MIP-3 alpha ELISA Kit (Colorimetric)

**Product Information**

<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage is content dependent.

**Product Description**

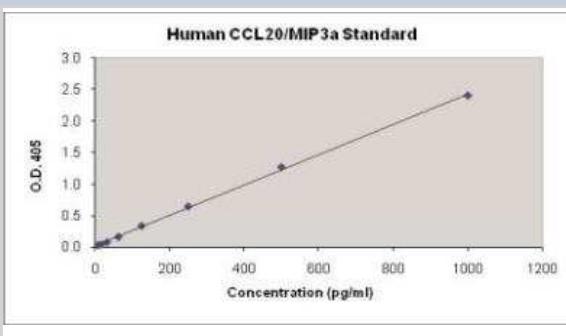
<b>Description</b>	Human CCL20/MIP-3alpha ActivELISA
<b>Gene ID</b>	6364
<b>Gene Symbol</b>	CCL20
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	Measures free MIP-3 alpha in the supernatant of activated cells.
<b>Kit Components</b>	100X Capture Antibody* 250 µl, 100X Detection Antibody* 250 µl, BSA 4 x 0.5 g, 20X Wash Buffer 50 ml, Coating Buffer 25 ml, 10X Blocking Buffer 20 ml, HRP-Conjugated Streptavidin 10 µl, ABTS Substrate 2 x 12 ml, Recombinant MIP-3a Standard 1 vial lyophilized(0.1ug), ELISA Strip Well Plates 2, Manual 1
<b>Notes</b>	Additional items required for the ELISA (not included in the MIP-3 alpha ActivELISA(TM) Module): 96-well ELISA plate reader.
<b>Standard Curve Range</b>	15.6 - 1,000 pg/mL
<b>Sensitivity</b>	4 pg/mL
<b>Assay Type</b>	Sandwich ELISA
<b>Suitable Sample Type</b>	Cell supernatant
<b>Sample Volume</b>	0.1 ml

**Product Application Details**

<b>Applications</b>	ELISA
<b>Recommended Dilutions</b>	ELISA
<b>Application Notes</b>	For the Detection of Human CCL20/MIP-3 alpha in the Supernatant. The human MIP-3 alpha ActivELISA(TM) Kit measures free MIP-3 alpha in the supernatant of activated cells. Standard protocols for detecting MIP-3 alpha activity include ELISA and Western Blot. The MIP-3 alpha ActivELISA(TM) can be completed in one day using a sandwich ELISA protocol. The anti-MIP-3 alpha antibody is coated on a plate which then captures free MIP-3 alpha. The amount of bound MIP3-alpha is detected by adding a second biotinylated anti-MIP-3 alpha antibody followed by HRP-conjugated streptavidin. ABTS substrate is then added and the concentration is determined by colorimetric detection in an ELISA plate reader.

## Images

ELISA: Human CCL20/MIP-3 alpha ELISA Kit (Colorimetric) [NBP2-31049] - Standard curve using the CCL20/MIP-3 alpha standard.



## Publications

Zoller V, Funcke JB, Roos J et al. Trail (TNF-related apoptosis-inducing ligand) induces an inflammatory response in human adipocytes Sci Rep 2017-07-18 [PMID: 28720906] (ELISA, Human)

Fuhr L, Rousseau M, Plauth A et al. Amorfrutins Are Natural PPARgamma Agonists with Potent Anti-inflammatory Properties. J. Nat. Prod. 2015-05-22 [PMID: 25938459] (ELISA, Human)

### Details:

CCL20/MIP-3 alpha ActivELISA Kit was used for the quantification of MIP-3a/CCL20 in cell culture supernatants from HT-29 cells subjected or not to treatments with TNF-alpha and/or Amorfrutin A, a phenolic constituents/Amorfrutins derived from Amorpha fruticosa (desert false indigo/ bastard indigobush). See full text for experimental details and Figure 3A for the ELISA results.

Vossenkamper A, Marches O, Fairclough PD et al. Inhibition of NF- $\kappa$ B 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- $\kappa$ B activation in blasts in myelodysplastic syndromes. Blood. 2010-08-19 [PMID: 20472834]

### Details:

NF- $\kappa$ B/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 (NBP2-31049)

Human CCL20/MIP-3 alpha ELISA Kit (Colorimetric): [https://www.novusbio.com/products/ccl20-mip-3-alpha-elisa-kit\\_nbp2-31049](https://www.novusbio.com/products/ccl20-mip-3-alpha-elisa-kit_nbp2-31049)

### Material Safety Data Sheet for Sodium Azide

#### Hazard Information

Chemical Name Sodium Azide

Chemical Formula NaN<sub>3</sub>

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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