Human IL-5 Alexa Fluor® 532-conjugated Antibody

Monoclonal Human IgG_1 Clone # Hu212

Catalog Number: FAB11433X

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-5 based on Mepolizumab therapeutic antibody.
Source	Monoclonal Human IgG_1 Clone # Hu212
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Human IL-5
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

ELISA	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Mepolizumab is a humanized IgG1 k anti-IL5 monoclonal antibody. IL-5 is a key cytokine required for the maturation, activation, proliferation and survival of eosinophils making it an ideal target for therapeutic management of eosinophil levels in respiratory indications. Mechanistically, mepolizumab exerts its therapeutic function as an IL-5 antagonist to reduce eosinophil levels in the blood. IL-5 is 134-amino acid 52 kDa homodimeric protein with a four-helix domain. Mepolizumab specifically binds to the α-chain of IL-5, resulting in two IL-5 dimers being cross-linked by two molecules of mepolizumab. The highly specific binding of mepolizumab to IL-15 blocks ligation to IL-5Aa receptor. The biologic is primarily used for the management of moderate to severe asthma. Bio-Techne's Leronlimab biosimilar is produced using the full-length sequence which is identical to that of the original therapeutic antibody.

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