

Anti-Asp f 1 [14H4] Standard Size Ab01407-10.0

This reformatted human antibody was made using the variable domain sequences of the original Human IgE format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Lambda

Clone Number: 14H4

Alternative Name(s) of Target: A. fumigatus Allergen; Asp f1; Aspf1; ribotoxin Asp f 1; ribonuclease mitogillin; allergen Asp f I; Asp f I; IgE-binding ribotoxin; major allergen Asp f 1; allergen: Asp f 1

UniProt Accession Number of Target Protein: P67875

Published Application(s): IP, WB, ELISA

Published Species Reactivity: Aspergillus fumigatus (Neosartorya fumigata)

Immunogen: 14H4 antibody was raised using a novel technique: mononuclear cells were taken from the human subjects with allergic bronchopulmonary aspergillosis and then screened for IgE secretion. Subsequently, they were used to generate hybridomas of which some were secreting anti-Asp f 1 IgE.

Specificity: This antibody recognises Asp f 1.

Application Notes: This antibody's target protein (Asp f 1) was confirmed through IP and mass spectrometry analysis (Wurth et al., 2018). WB and ELISA: the antibody was successful in detecting Asp f 1 antigen in a commercial Aspergillus extract ALKB (Wurth et al., 2018).

Antibody First Published in: Wurth et al. Human IgE mAbs define variability in commercial Aspergillus extract allergen composition JCI Insight. 2018 Oct 18;3(20). pii: 123387. doi: 10.1172/jci.insight.123387. PMID:30333320

Note on publication: The article describes a method of generating Aspergillus-reactive IgE-secreting human hybridomas (among them these secreting this antibody). Subsequently, the antibody is characterized and its specificity is determined. Finally, this antibody is used to determine a potential presence of its antigen in the commercially-available Aspergillus samples used in diagnosis and treatment of Aspergillus-related allergies.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.