Jackson ImmunoResearch LABORATORIES INC.

ANTIBODIES FOR SEROLOGY AND DIAGNOSTICS

Anti-Human IgE

Anti-Human IgE Antibodies

from Jackson ImmunoResearch

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Jackson ImmunoResearch Mouse Monoclonal Anti-Human IgE antibodies complement our existing Anti-Human IgG, IgM, and IgA antibodies suitable for diagnostics research and development. All are available conjugated to a select range of reporter molecules, including Alkaline Phosphatase and Biotin enabling excellent sensitivity.

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About Jackson ImmunoResearch Anti-Human IgE

A mouse-derived monoclonal antibody with reactivity to human E class immunoglobulins and is epsilon (ε) chain specific enabling robust detection of human IgE by a variety of techniques, including ELISA (Enzyme-linked immunosorbent assay), Lateral flow immunoassay (LFIA), flow cytometry, western blot, and CLIA (Chemiluminescent immunoassay).

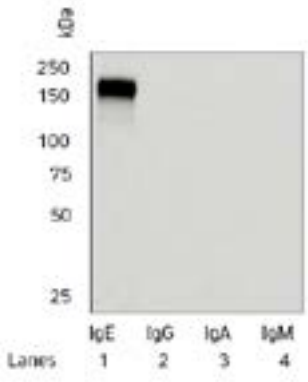

Figure 1: Western blot showing the specificity of JIR Anti-Human IgE antibody for Human IgE. 1µg of purified human immunoglobulin (IgE, IgG, IgA or IgM as indicated) was loaded into individual wells. SDS-PAGE was performed under non-reducing conditions.and probed with HRP Anti-Human IgE (209-032-241 at 1:10K dilution.

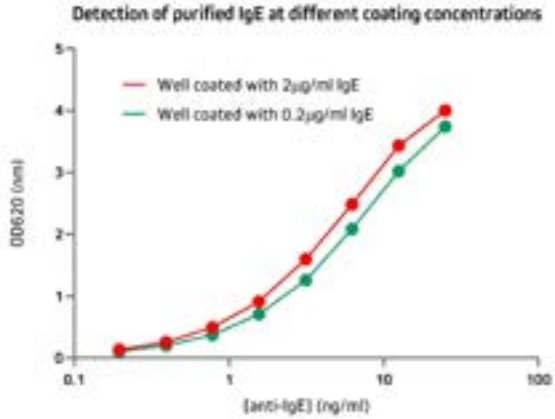

Figure 2: Detection of IgE by indirect ELISA. Plate coated with 100µl/well purified IgE from human plasma at 2 or 0.2µg/ml. Plate blocked with 300µl/well of 1% BSA. followed by Anti-Human IgE (209-002-241), serially diluted in PBS/T at 1:3 across the plate and incubated for 2 hr and detected with HRP Goat Anti-Mouse IgG, Fcγ fragment specific (115-035-071), diluted 1:20,000 in PBS/T. TMB was applied and read at 620nm after 30 min.

Specificity

Jackson ImmunoResearch Anti-Human IgE epsilon (ε) chain specific and has been tested by ELISA to show minimal cross-reactivity to human IgG, IgM, or IgA. Figure 1 is a Western blot that demonstrates the specificity with no detection of other immunoglobulin classes. We have not tested if this antibody will detect immunoglobulins from other species.

Sensitivity

Human IgE can be detected from various sources with excellent sensitivity. Figure 2 demonstrates the sensitivity when used in an indirect ELISA, showing its ability to detect IgE coating the wells at two different concentrations.

Detection of IgE from biological samples

Jackson ImmunoResearch Anti-Human IgE offers excellent sensitivity when used in a sandwich ELISA with its capture partner antibody. We recommend using two different monoclonal antibodies for capture and detection. coating with an unconjugated Anti-Human IgE, incubating with the diluted sample and then detecting with a conjugated Anti-Human IgE antibody, such as Alkaline Phosphatase or HRP. Figure 3 shows the quantification of total IgE from patient samples by sandwich assay using JIR Anti-Human IgE.

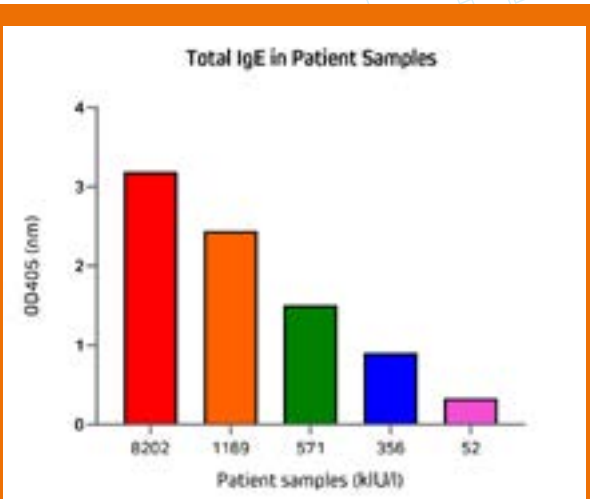

Figure 3: Detection of total IgE from human serum and plasma samples by direct sandwich ELISA. Plate coated with unconjugated Anti-Human IgE (clone 10A10) antibody at 100µl/well at 2µg/ml. Blocked with 300µl/well of 1% BSA. Incubated with 100µl/well of sample. Detection antibody, Alkaline Phosphatase Anti-Human IgE (209-055-241),1:10,000 in PBS/T at 100µl/well. DEA substrate was incubated on the plate for 30 min and read at 405nm.

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