

REAGENTS FOR DETECTION OF HLA B27



DURACLONE B27

HLA B27

HLA B27 is encoded by the B locus in the major histocompatibility complex (MHC) that presents microbial antigens to T-Lymphocytes. The expression of HLA-B27 antigen is associated with the onset of a class of seronegative spondylo-arthropathies that include ankylosing spondylitis, Reiter's disease, psoriatic arthritis and inflammatory bowel disease. DuraClone B27 reagent uses a two-color immunofluorescence based method for detecting HLA-B27 antigen on a flow cytometry platform. T-lymphocytes selected through gating of the CD3+ specific population are analyzed for staining by HLA-B27 conjugates. It has been demonstrated that this pre-selection of T-lymphocytes increases the specificity of the test by eliminating the background attributed to other leukocyte populations. The addition of anti-B7 antibody to the cocktail is done to further reduce the risk of false-positives. The anti-B7 antibody competes with the anti-B27 antibody for the B7 antigen and in this manner, suppressing the incidence of cross-reactivity of Anti-B27 antibodies to B7 antigens.

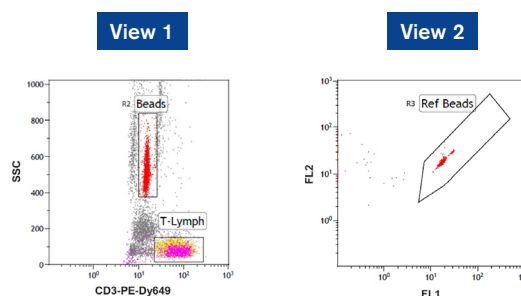
Specificity

Anti-B7 antibody minimizes cross-reactivity of Anti-B27 antibodies with the B7 antigen – lower probability of false positives.

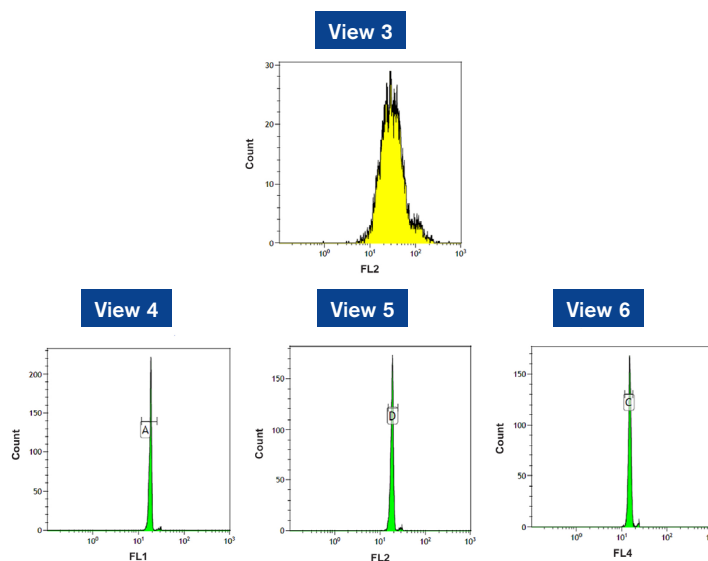
Sensitivity

Gating of T-lymphocytes (CD3+) to reduce background; Use of two clones of anti-HLA-B27 enhances sensitivity of the test.

SAMPLE ANALYSIS AND GATING USING DURACLONE B27 REAGENT



Dot plot views: View 1: CD3-PE-Dy649 fluorescence vs. Side Scatter (SSC) to capture CD3+ T lymphocytes and Beads (R2). View-2: FL1 vs. FL2 (both on log scale) and Beads (R2) gate applied to obtain a distinct Reference Beads population (R3).



Histogram views: View-3: HLA -B27 positive population gated from T lymphocytes. View 4, 5 and 6: Gated beads on FL1, FL2 and FL4, respectively.

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Product Specifications

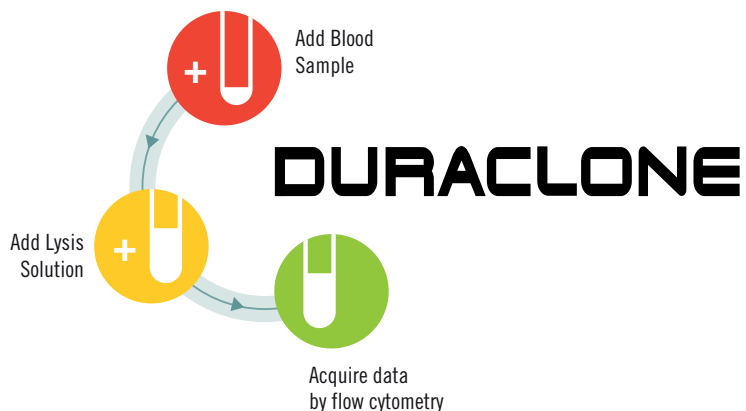
Catalog: B36862

Pack Size: 50 tests

Clones: UCHT1, ABCm3, FD705, BB7.1



Simple ▪ Smart ▪ Efficient Solutions For Your Lab



CONVENIENCE

Provided as a dried-down reagent in a ready to use format with internal reference beads.

STABILITY AND STORAGE

Dried-down reagents do not require cold storage.

ACCURATE AND REPRODUCIBLE

Extensively validated reagents.

SIMPLIFIED WORKFLOW

Reagents employ a simple lyse/no wash protocol. 1 tube per test.

LEARN MORE ABOUT DURACLONE:

WWW.DURACLONE.COM

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