

Reference Protocols

Irreproducibility of results is a major issue in the scientific community. Numerous factors influencing the failure to reproduce other's experiments have been identified. One issue is the lack of original protocols.

We strive for maximum transparency. Therefore we provide a Reference Protocol for every HistoSure product application we tested in-house. However, to achieve the highest specific signal and lowest non-specific background signal, customers may adapt experimental conditions individually. Please also refer to our IHC-P Guidelines about [antigen retrieval](#), [primary antibody incubation](#) and [detection techniques](#) and to our general protocols on the [Synaptic Systems main page](#).

The screenshot shows the product page for CD 4 - HS-360 117. The left sidebar contains the following information:

- CD 4 - HS-360 117**
- A-T-cell surface glycoprotein
- Monoclonal rat purified IgG
- Cat. No. HS-360 117**: 200 µl purified IgG, lyophilized. Albumin and azide were added for stabilization. For reconstruction add 200 µl H₂O. Then aliquot and store at -20°C until use.
- Applications**: WB: 1 : 1000 [gallery](#); IHC: 1 : 100 (see remarks) [gallery](#); IHC-P/FFPE: 1 : 100 [gallery](#)
- Clone**: 7B9D2
- Subtype**: IgG2b (κ light chain)
- Immunogen**: Recombinant protein corresponding to AA 27 to 394 from mouse CD4 (UniProt ID: P06332)
- Reactivity**: Reacts with: mouse (P06332). No signal: human (P01730). Other species not tested yet.
- Specificity**: Specific for CD 4
- Remarks**: IHC: Heat-mediated antigen retrieval (in citrate buffer pH 6) is required for immunohistochemical stainings.
- Data sheet**: [hs-360_117.pdf](#)

The main content area features a large immunofluorescence image of a mouse spleen section. Below the image is a detailed description: "Indirect immunostaining of formalin-fixed paraffin-embedded mouse spleen section with monoclonal rat anti-CD4 (cat. no.: HS-360 117; red) and rabbit polyclonal (cat. no.: HS-413 103; green) demonstrating the co-localization in CD4+ T-cells (overlay; yellow). Nuclei have been visualized by DAPI staining (blue)." Below this is a grid of smaller images showing various applications: WB, IHC, IHC-P, and IHC-P.

At the bottom right, the 'Protocols' section lists:

- IHC-P**
 - IHC-P Anti CD4
- WB**
 - WB Anti CD4
- IHC**
 - IHC Anti CD4

A red arrow points from the 'Data sheet' link in the left sidebar to the 'Protocols' section.

Reference protocols for HistoSure products can be downloaded as PDF-document from the product pages respectively.