Product Specifications

**Intended use:** For in-vitro diagnostic use.

Mouse Monoclonal Anti-Human CD4 is intended for immunohistochemistry methodologies. A differential diagnosis is complemented by using a panel of antibodies and in conjunction with morphological studies, patient clinical history and other diagnostic tests by a qualified pathologist.

The CD4 molecule is a 55kD single chain transmembrane glycoprotein of the Ig superfamily. CD4 antigen is found on a T cell subset (helper/inducer) representing 45% of peripheral blood lymphocytes and 80% of thymocytes. Expression of CD4 has also been detected on peripheral blood monocytes, tissue macrophages and granulocytes.

**Storage and stability:** Store at 2-8°C. Do not freeze. Do not use after expiration date on vial.

**Specificity:** Human CD4 antigen

**Clone:** 1F6  
**Ig Class:** IgG1

**Mouse IgG conc:** See details on vial label

**Immunogen:** Recombinant protein corresponding to the external domain of the CD4 molecule.

**Product:** 1ml liquid tissue culture supernatant containing 15mM sodium azide.

**Precautions:** As this product is derived from biological material proper handling procedures should be employed. Sodium azide is not considered hazardous at 15mM. However, an MSDS is available on request or online (www.vectorlabs.com) for safety or disposal information.

**Specimen Preparation**

**Paraffin sections:** VP-C318 can be used on paraffin wax embedded tissue fixed in 10% neutral buffered formalin. Pre-treatment of tissue is essential using a high temperature antigen unmasking technique. Optimal results can be achieved with the Vector Antigen Unmasking solution (H-3300) or 1mM EDTA (pH 8.0).

**Note:** Solutions containing 1% or greater H2O2 used to block endogenous peroxidase have a detrimental effect on the epitope recognised by VP-C318. For optimal staining intensity it is recommended that endogenous peroxidase should be blocked with 0.5% H2O2/methanol for 10 minutes BEFORE antigen retrieval.

**Frozen sections:** Not recommended.

**INSTRUCTIONS FOR USE**

Dilutions and times are only a guide, there may be variations due to fixation, specimen collection and preparation, optimal conditions should be established by the individual laboratory.

Following antigen unmasking of paraffin wax embedded tissue VP-C318 should be applied to sections in the dilution range 1:20-1:40 for 60 minutes at 25°C.

**Positive control tissue:** A positive control should be used in each run. The recommended control tissue is tonsil.

**Negative control tissue:** A negative control tissue should be set up to verify the specificity of the antibody. The recommended negative control is cerebellum.

**Negative control reagent:** A negative control mouse immunoglobulin (e.g. I-2000) should be used to evaluate non-specific binding.

**Visualisation:** VECTASTAIN® Elite ABC Peroxidase Kits (PK-6200 or PK-6102, PK-7200) in conjunction with substrate kits (SK-4100 or SK-4800) are all recommended for use with this antibody. Specific protocols are included in each kit.

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**For professional use only.**

**Selected References:**


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