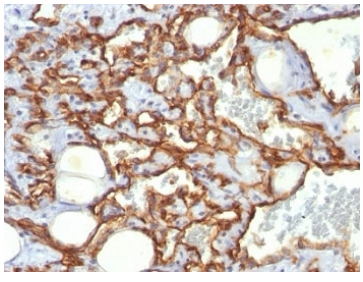
# Anti-CD31 Antibody [clone SPM532] (V9065)

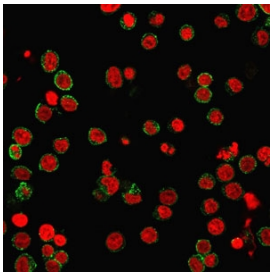
| Catalog No. | Formulation | Size |
|---|---|---|
| V9065-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V9065-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V9065SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V9065IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

**Bulk quote request**

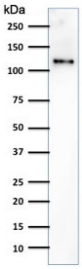
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | SPM532 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P16284 |
| **Localization** | Cell surface and cytoplasm of endothelial cells |
| **Applications** | Immunofluorescence : 1-2ug/ml<br>Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| **Limitations** | This anti-CD31 antibody is available for research use only. |



IHC: Formalin-fixed, paraffin-embedded human Angiosarcoma stained with anti-CD31 antibody (clone SPM532).



Immunofluorescent staining of PFA-fixed human Jurkat cells with CD31 antibody (green, clone SPM532) and NucSpot nuclear counterstain (red).




Western blot testing of human Jurkat cell lysate with CD31 antibody (clone SPM532). Expected molecular weight: 83-130 kDa depending on level of glycosylation.

## Description

CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 mAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.

## Application Notes

The optimal dilution of the anti-CD31 antibody for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Human recombinant protein was used as the immunogen for this anti-CD31 antibody.

## Storage

Store the anti-CD31 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).