

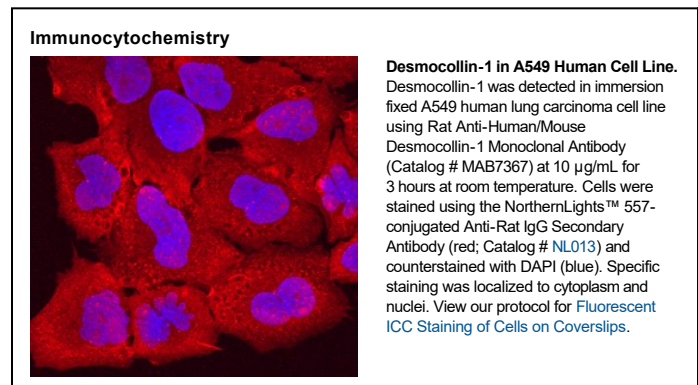
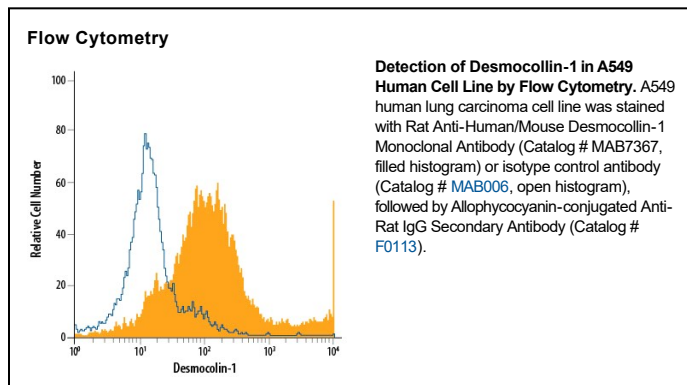
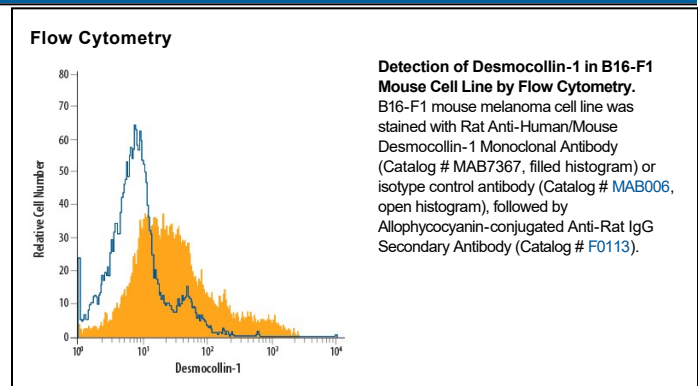
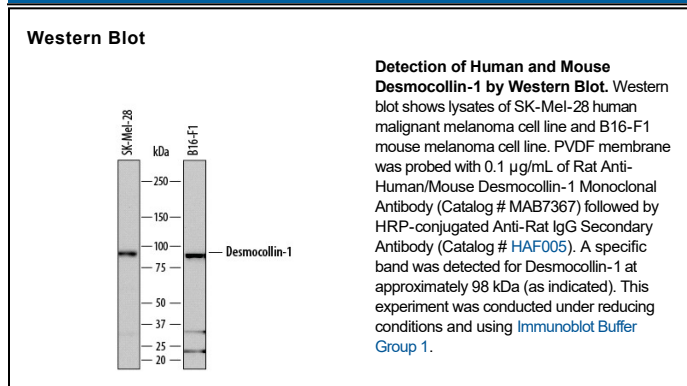
| DESCRIPTION | |
|---------------------------|--|
| Species Reactivity | Human/Mouse |
| Specificity | Detects mouse Desmocollin-1 in ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human Desmocollin-1 is observed, and no cross-reactivity with recombinant mouse Desmocollin-2 or -3 is observed. |
| Source | Monoclonal Rat IgG _{2A} Clone # 772906 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse Desmocollin-1 Arg135-Lys691 Accession # P55849 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

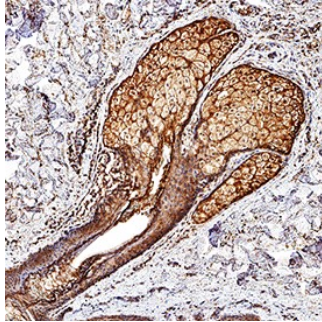
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------------|--|-----------|
| Western Blot | 0.1 µg/mL | See Below |
| Flow Cytometry | 0.25 µg/10 ⁶ cells | See Below |
| Immunocytochemistry | 8-25 µg/mL | See Below |
| Immunohistochemistry | 1-25 µg/mL | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA



Immunohistochemistry



Desmocollin-1 in Mouse Skin.

Desmocollin-1 was detected in perfusion fixed frozen sections of mouse skin using Rat Anti-Human/Mouse Desmocollin-1 Monoclonal Antibody (Catalog # MAB7367) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to hair root sheath. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

| | |
|--------------------------------|---|
| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

DSC-1 (Desmocollin [Greek for "glue-that-binds"]-1) is an approximately 95-110 kDa member of the Ca⁺⁺-dependent cadherin family of adhesion molecules. It is found on the surface of stratified epithelial cells, including the spinous and granular layers of keratinized and nonkeratinized epithelia of the oral cavity and skin. DSC-1 expression is induced by DSG-1. It serves as a component of desmosomes, forming a linkage that unites adjacent cells with cytoplasmic intermediate filaments. In particular, homodimeric DSC-1 may form heterotypic interactions with DSG-1 in-trans, and bind to the cytoskeleton intracellularly via plakophilin-1. Mature mouse DSC-1 is a 760 amino acid (aa) type I transmembrane glycoprotein (aa 135-691). The mature molecule contains a 557 aa extracellular region with five cadherin domains (aa 135-682), and a 172 aa cytoplasmic domain. There is one splice variant that shows an 11 aa substitution for aa 822-886. Over aa 135-691, mouse DSC-1 shares 82% aa sequence identity with human DSC-1.