# Recombinant CD44 / HCAM (Cancer Stem Cell Marker) Antibody

Rabbit Monoclonal Antibody [Clone HCAM/13739R]

| Catalog No | Format | Size |
|---|---|---|
| 960-RBM33-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 960-RBM33-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 960-RBM33-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

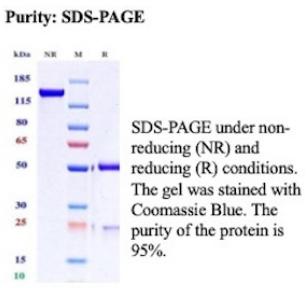
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

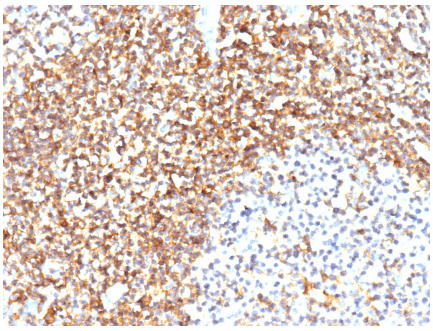
| | |
|---|---|
| **Clone** | HCAM/13739R |
| **Immunogen** | Recombinant fragment (around aa 153-171) of the human CD44 protein (exact sequence is proprietary) |
| **Host** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG / Kappa |
| **Mol. Weight of Antigen** | 81.54kDa |
| **Cellular Localization** | Cell membrane, Cell projection, Microvillus, Secreted |
| **Species Reactivity** | Human |
| **Positive Control** | Detected in fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717) |

**Optimal dilution for a specific application should be determined.*

## Product Images for Recombinant CD44 / HCAM (Cancer Stem Cell Marker) Antibody




SDS-PAGE Analysis of Purified CD44 Rabbit Recombinant Monoclonal Antibody (HCAM/13739R). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human colon stained with CD44 Recombinant Rabbit Monoclonal Antibody (HCAM/13739R). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.

## Specificity & Comments

Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment (PubMed:16541107, PubMed:19703720, PubMed:22726066). Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection (PubMed:7528188). Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:18757307, PubMed:23589287). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (PubMed:15123640).

## Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.