



CD133

Mouse monoclonal Antibody

#54056

**Catalog Number:** 54056**Amount:** 100µg/100µl**Swiss-Prot No. :** O43490**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human CD133 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of CD133 and does not cross-react with related proteins**Reactivity:** Human**Applications:**

Predicted MW: 133kd

IHC:1:200-1000

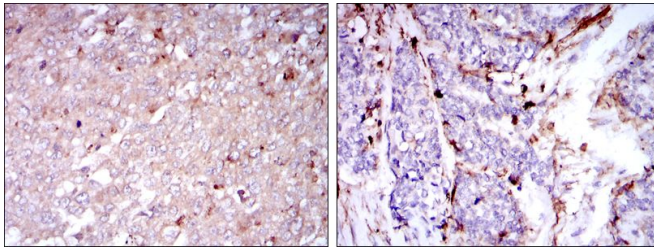


Figure 1: Immunohistochemical analysis of paraffin-embedded human breast cancer tissues (left) and human esophageal cancer tissues (right) using CD133 mouse mAb with DAB staining.

### Background:

This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene