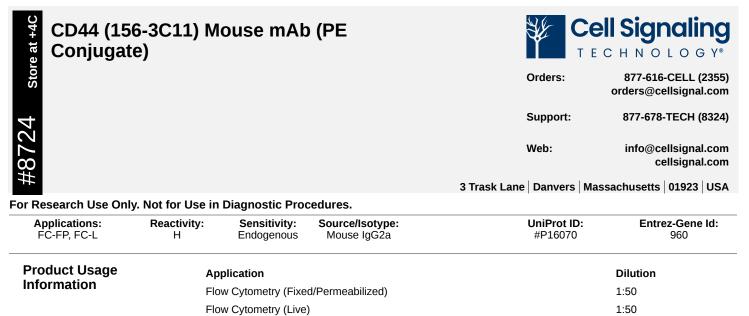
Revision 3



StorageSupplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the
antibodies. Protect from light. Do not freeze.Specificity / SensitivityCD44 (156-3C11) Mouse mAb detects endogenous levels of total CD44 protein.

Source / Purification Monoclonal antibody is produced by immunizing BALB/c mice with stimulated human leukocytes and recognizes residues surrounding Ser210 of human CD44

- **Product Description** This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD44 (156-3C11) Mouse mAb #3570.
- **Background** CD44 is a type I transmembrane glycoprotein that mediates cell-cell and cell-matrix interaction through its affinity for hyaluronic acid (HA) and possibly through other parts of the extracellular matrix (ECM). CD44 is highly polymorphic, possesses a number of alternative splice variants and undergoes extensive post-translational modifications (1,2). Increased surface levels of CD44 are characteristic of T cell activation, and expression of the protein is upregulated during the inflammatory response. Research studies have shown that interactions between CD44 and HER2 are linked to an increase in ovarian carcinoma cell growth (1-3). CD44 interacts with ezrin, radixin, and moesin (ERM), linking the actin cytoskeleton to the plasma membrane and the ECM (4-6). CD44 is constitutively phosphorylated at Ser325 in resting cells. Activation of PKC results in phosphorylation of Ser291, dephosphorylation of Ser325, disassociation of ezrin from CD44, and directional motility (4).
- Background References
 1. Goodison, S. et al. (1999) Mol. Pathol. 52, 189-196.
 2. Cichy, J. and Puré, E. (2003) J. Cell Biol. 161, 839-843.
 3. Bourguignon, L.Y. et al. (1997) J. Biol. Chem. 272, 27913-27918.
 4. Legg, J.W. et al. (2002) Nat. Cell Biol. 4, 399-407.
 5. Yonemura, S. et al. (1998) J. Cell Biol. 140, 885-895.
- 6. Tsukita, S. et al. (1994) J. Cell Biol. 126, 391-401. Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live) Applications Key **Cross-Reactivity Key** H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected **Trademarks and** Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more Patents information. Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the Limited Uses following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

CD44 (156-3C11) Mouse mAb (PE Conjugate) (#8724) Datasheet Without Images Cell Signaling Technology

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