**Polyclonal Anti-** Cytokeratin 8, ***CK8 (*Sepharose Bead Conjugate)**

**Catalogue No.** PA1240-S

**Lot No.** 09F01

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human. No cross reactivity with other proteins.

**Recommended application**

*(Immunoprecipitation(IP)*

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminal of human CK8, different to the related rat sequence by a single amino acid.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg $NaN_3a_3$ preservative.

**Storage**

Store at 4˚C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

**BACKGROUND**

Cytokeratin 8 (CK8), also known as Keratin 8 (K8), is a type II keratin. Among the various intermediate filament (IF) proteins, cytokeratin 8 (CK8) is especially remarkable as it is produced early in embryogenesis, is the only type-II CK occurring in many simple epithelial cells, and can also be synthesized in certain non-epithelial cells.1 Cytokeratin 8 mRNA was abundant in fetal small intestine, placenta, pancreas, lung, liver, and kidney. Levels of cytokeratin 8 mRNA in placenta increased slightly during pregnancy.2 He et al. (2002) presented evidence that K8 is a new cytoplasmic target for JNK in Fas receptor-mediated signaling. The functional significance of this phosphorylation could relate to regulation of JNK signaling and/or regulation of keratin dynamics.3

***REFERENCE***


1. Krauss, S.; Franke, W. W. : Organization and sequence of the human gene encoding cytokeratin 8. *Gene* 86: 241-249, 1990.
2. Yamamoto, R.; Kao, L.-C.; McKnight, C. E.; Strauss, J. F., III : Cloning and sequence of cDNA for human placental cytokeratin 8: regulation of the mRNA in trophoblastic cells by cAMP. *Molec. Endocr.* 4: 370-374, 1990.
3. He, T.; Stepulak, A.; Holmstrom, T. H.; Omary, M. B.; Eriksson, J. E. : The intermediate filament protein kinase 8 is a novel cytoplasmic substrate for c-Jun N-terminal kinase. *J. Biol. Chem.* 277: 10767-10774, 2002.




**Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email:Info@antageneinc.com**