

PAX8 monoclonal antibody

Catalog: MB67079

Host: Mouse

Reactivity: Human

BackGround:

Paired box (PAX) proteins are a family of transcription factors that play important and diverse roles in animal development. Nine PAX proteins (PAX1-9) have been described in humans and other mammals. They are defined by the presence of an amino-terminal "paired" domain, consisting of two helix-turn-helix motifs, with DNA binding activity. PAX proteins are classified into four structurally distinct subgroups (I-IV) based on the absence or presence of a carboxy-terminal homeodomain and a central octapeptide region. Subgroup I (PAX1 and 9) contains the octapeptide but lacks the homeodomain; subgroup II (PAX2, 5, and 8) contains the octapeptide and a truncated homeodomain; subgroup III (PAX3 and 7) contains the octapeptide and a complete homeodomain; and subgroup IV (PAX4 and 6) contains a complete homeodomain but lacks the octapeptide region. PAX proteins play critically important roles in development by regulating transcriptional networks responsible for embryonic patterning and organogenesis; a subset of PAX proteins also maintain functional importance during postnatal development. Research studies have implicated genetic mutations that result in aberrant expression of PAX genes in a number of cancer subtypes, with members of subgroups II and III identified as potential mediators of tumor progression.

PAX8 is involved in the development of thyroid follicular cells and the expression of thyroid-specific genes. Investigators have associated mutations in the PAX8 gene with thyroid dysgenesis, thyroid follicular carcinomas, and atypical follicular thyroid adenomas.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 48 kDa

Swiss-Prot:

Q06710

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/2000)

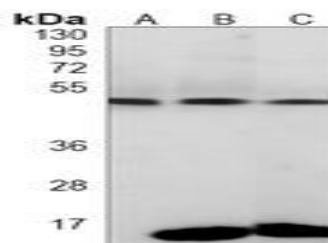
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PAX8 protein.

DATA:



Western blot analysis of PAX8 expression in HeLa (A), Raji (B), SKOV3 (C) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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