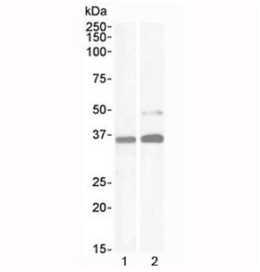
# PAX8 Antibody for WB / Paired Box Protein Pax-8 Western Blot Antibody (R35022)

| Catalog No. | Formulation | Size |
|---|---|---|
| R35022-100UG | 0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Predicted Reactivity** | Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Goat |
| **Clonality** | Polyclonal (goat origin) |
| **Isotype** | Goat Ig |
| **Purity** | Antigen affinity |
| **Gene ID** | 7849 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Western blot: 1-3ug/ml<br>ELISA (peptide) LOD: 1:128000 |
| **Limitations** | This PAX8 antibody is available for research use only. |




PAX8 Antibody for WB / Paired Box Protein Pax-8 Western Blot Antibody western blot analysis in human samples. Lane 1: human kidney lysate, Lane 2: human HeLa cell lysate. A band is detected at approximately 48 kDa, consistent with the predicted molecular weight of Paired box protein Pax-8 (PAX8). Additional bands between ~31-43 kDa correspond to known PAX8 isoforms, while a higher band near ~62 kDa may reflect post-translationally modified forms of the protein, such as phosphorylation-dependent mobility shifts. The banding pattern aligns with reported isoform diversity and transcription factor regulation, supporting specific detection of PAX8 across different human cell types.

## Description

Paired box protein Pax-8 (PAX8) is a nuclear transcription factor encoded by the PAX8 gene and a member of the paired

box (PAX) family, functioning in epithelial lineage specification within thyroid, renal, and Mullerian-derived tissues. It regulates gene expression programs that define cellular identity and differentiation. PAX8 Antibody for WB is specifically developed for protein-level detection under denaturing conditions, where molecular weight resolution and band specificity are essential for confirming PAX8 expression.

PAX8 antibody, also referred to as Paired box protein Pax-8 antibody or Pax-8 transcription factor antibody, recognizes a predominantly nuclear protein that migrates at an expected molecular weight of approximately 48 kDa in western blot analysis. This defined band position provides a reliable reference point for identifying PAX8 in lysates derived from thyroid epithelium, renal tubular cells, or Mullerian-derived tissues. In well-prepared samples, detection of a clear band near this expected size supports confident validation of lineage-associated protein expression.

PAX8 Antibody for WB is uniquely positioned for applications requiring precise band interpretation, particularly in studies comparing expression across multiple cell types or experimental conditions. As a goat polyclonal antibody, it recognizes multiple epitopes on the PAX8 protein, improving detection sensitivity and increasing the likelihood of identifying the target even in partially degraded or low-abundance samples. This is especially important in western blot experiments where protein integrity and extraction efficiency can vary significantly.

Western blot analysis of PAX8 may reveal subtle band variation depending on isoform expression and sample preparation. Alternative splice variants can produce closely spaced bands, and differences between nuclear-enriched extracts and whole-cell lysates may influence signal intensity. Additionally, transcription factors such as PAX8 can exhibit slight mobility shifts due to post-translational influences or electrophoretic conditions, making antibody specificity and clean band detection critical for accurate interpretation.

PAX8 Antibody for WB provides a focused solution for detecting PAX8 with clarity in SDS-PAGE based assays. It enables researchers to distinguish true target bands from non-specific background, verify expected molecular weight alignment, and assess expression differences across biological samples. This makes it particularly valuable in experiments where confirming protein size, isoform presence, and relative expression levels are central to the analysis.

## Application Notes

Optimal dilution of the PAX8 Antibody for WB / Paired Box Protein Pax-8 Western Blot Antibody should be determined by the researcher.

## Immunogen

Amino acids PHNSIRSGHGGLN were used as the immunogen for this PAX8 Antibody for WB / Paired Box Protein Pax-8 Western Blot Antibody.

## Storage

Aliquot and store the PAX8 antibody at -20oC.

## Alternate Names

PAX8 western blot antibody, Paired box protein Pax-8 WB antibody, PAX8 transcription factor western blot antibody, Pax-8 WB antibody, PAX8 goat polyclonal antibody

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