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# Anti-SP3/4 Antibody

Catalog # AP53798

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | Q02447 |
| **Other Accession** | Q02446 |
| **Reactivity** | Human, Mouse, Rat, Zebrafish, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 81925 |

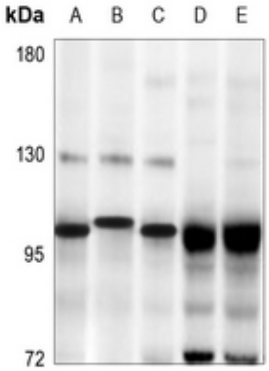
## Additional Information

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|---|---|
| **Gene ID** | 6670 |
| **Other Names** | SP3; Transcription factor Sp3; SPR-2; SP4; Transcription factor Sp4; SPR-1 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SP3/4. The exact sequence is proprietary. |
| **Dilution** | WB~~1/500 - 1/1000 IHC~~1:100~500 IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

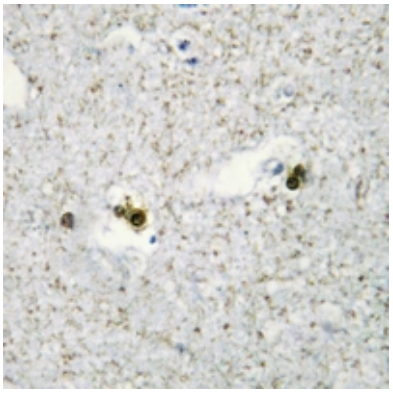
## Protein Information

| | |
|---|---|
| **Name** | SP3 |
| **Function** | Transcriptional factor that can act as an activator or repressor depending on isoform and/or post-translational modifications. Binds to GT and GC boxes promoter elements. Competes with SP1 for the GC-box promoters. Weak activator of transcription but can activate a number of genes involved in different processes such as cell-cycle regulation, hormone-induction and house-keeping. |
| **Cellular Location** | Nucleus. Nucleus, PML body. Note=Localizes to the nuclear periphery and in nuclear dots when sumoylated. Some localization in PML nuclear bodies |
| **Tissue Location** | Ubiquitously expressed. |

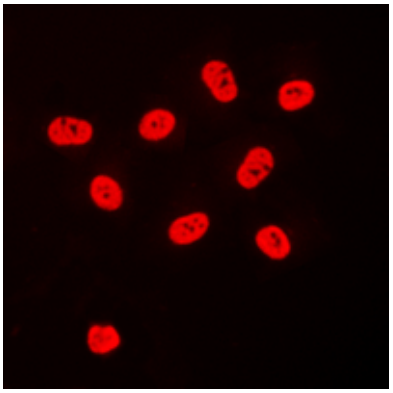
## Images




Western blot analysis of SP3/4 expression in MEF (A), H9C2 (B), U87MG (C), MCF7 (D), LO2 (E) whole cell lysates. (Predicted band size: 81 kD; Observed band size: 100 kD)



Immunohistochemical analysis of SP3/4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of SP3/4 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.