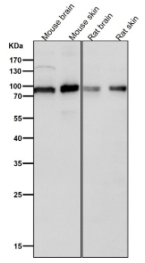
# Phospho-UBF1 (pSer484) Antibody / Upstream-binding factor 1 [clone 32U21] (FY12011)

| Catalog No. | Formulation | Size |
|---|---|---|
| FY12011 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. | 100 ul |

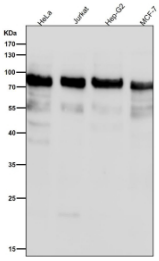
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

| | |
|---|---|
| **Availability** | 2-3 weeks |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Liquid |
| **Host** | Rabbit |
| **Clonality** | Recombinant Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | 32U21 |
| **Purity** | Affinity-chromatography |
| **Buffer** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **UniProt** | P17480 |
| **Applications** | Western blot: 1:500-1:2000<br>Immunohistochemistry: 1:50-1:200 |
| **Limitations** | This Phospho-UBF1 (pSer484) antibody is available for research use only. |




All lanes use the antibody at 1:1K dilution for 1 hour at room temperature. Predicted molecular weight ~89 kDa.




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## Description

Phospho-UBF1 (pSer484) antibody recognizes upstream binding factor 1 phosphorylated at serine 484, a modification critical for ribosomal RNA transcription. UBF1 is a nucleolar transcription factor that binds rDNA promoters and recruits RNA polymerase I machinery to initiate rRNA synthesis. Phosphorylation at Ser484 is mediated by signaling kinases such as ERK and enhances UBF1 activity, thereby linking growth factor signaling to ribosome biogenesis.

Research employing Phospho-UBF1 (Ser484) antibody has highlighted its role in cell growth and proliferation. Enhanced UBF1 phosphorylation correlates with increased ribosome production in rapidly dividing cells, including cancer cells, where heightened protein synthesis supports tumor growth. Conversely, reduced phosphorylation is associated with decreased rRNA transcription during cellular stress or growth arrest, making Ser484 phosphorylation a sensitive marker of nucleolar activity.

Antibodies specific for phospho-UBF1 at Ser484 are useful in assays such as western blot, immunofluorescence, and chromatin immunoprecipitation. These reagents allow researchers to study how signaling pathways regulate ribosome synthesis and how nucleolar activity adapts to physiological conditions. Clone-based validation ensures that detection is specific to the phosphorylated form rather than total UBF1.

NSJ Bioreagents offers this Phospho-UBF1 (pSer484) antibody to aid in research on transcriptional regulation, signal transduction, and cancer biology. Alternate names include upstream binding factor 1 antibody, nucleolar transcription factor 1 antibody, and NOR-90 antibody.

## Application Notes

Optimal dilution of the Phospho-UBF1 (pSer484) antibody should be determined by the researcher.

## Immunogen

A synthesized peptide derived from human Phospho-UBF1 (pS484) was used as the immunogen for the Phospho-UBF1 (pSer484) antibody.

## Storage

Store the Phospho-UBF1 (pSer484) antibody at -20oC.

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