

## Product datasheet for **AP22409PU-N**

### Pou5f1 Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Peptide ELISA:</b> Limit Dilution: 1/16000. <b>Western blot:</b> 1-2 µg/ml. Approx 38-40kDa band observed in lysates of cell line NIH3T3 and approx. 45kDa in lysates of cell line HepG2 (calculated MW of 38.6kDa according to Human NP_002692.2 and 38.2kDa according to Mouse NP_038661.2). The observed molecular weight corresponds to earlier findings with different antibodies from other commercial sources.
Reactivity:	Mouse, Rat, Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_038661.2.
Specificity:	Recognizes OCT4/POU5F1.
Formulation:	Tris saline, pH~7.3 with 0.02% Sodium Azide and 0.5% BSA State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	POU domain, class 5, transcription factor 1
Database Link:	<a href="#">Entrez Gene 18999 Mouse P20263</a>



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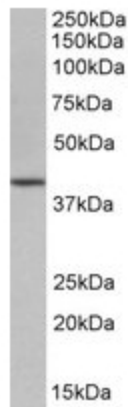
**Background:**

Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.

The POU-specific domain mediates interaction with PKM2 and is Highly expressed in undifferentiated embryonic stem cells and expression decreases gradually after embryoid body (EB) formation.

**Synonyms:**

POU5F1, OCT3, OCT4, OTF3, POU domain, class 5, transcription factor 1, Octamer-binding transcription factor 3, Oct-3, Oct-4

**Product images:**

OCT4 antibody staining of NIH3T3 lysate at 1 ug/ml (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.