

## Product datasheet for **AM32252SU-N**

### Oct-2 (POU2F2) Mouse Monoclonal Antibody [Clone ID: MRQ-2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MRQ-2
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on frozen and paraffin sections:</b> 1/25 - 1/100. Preparation and Pretreatment: 1. Cut 3-4 µm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C. 2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water. 3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step. Positive Control: Tonsil, lymph node Staining pattern: Nuclear
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody reacts to OCT-2.
Formulation:	PBS, pH 7.4 State: Ascites State: Liquid Ascites Stabilizer: 0,9% BSA Preservative: 0,09% sodium azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	POU class 2 homeobox 2



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**Database Link:** [Entrez Gene 5452 Human P09086](#)

**Background:** Oct-2 is a transcription factor of the POU homeo-domain family that binds to the Ig gene octamer sites, regulating B-cell-specific genes. These are involved in proliferation and differentiation and despite the scarce evidence for Oct-2 expression in T cells, it has been shown that this factor participates in transcriptional regulation during T-cell activation. Oct-2 activity is dependent on phosphorylation and alternative splicing, although it seems that the level of its expression can be used as a marker of B-cell lineage and differentiation. The following show high levels of Oct-2 expression: germinal center B-cells, mantle B-cells, monocytoid B-cells, and plasma cells. Various lymphomas are also positive for this marker including the following: B-chronic lymphocytic leukemia, mantle cell lymphoma, follicular lymphoma, marginal zone lymphoma, plasmacytoma, Burkitt lymphoma, diffuse large cell lymphoma, diffuse large B-cell lymphoma, T-cell rich B-cell lymphoma, nodular lymphocyte predominant Hodgkin lymphoma, classic Hodgkin lymphoma. Several studies of Oct-2 expression have shown a low level expression in pre-B, T-cell, myelomonocytic, and epithelial cell lines, whereas all mature B-cell lines display high levels of expression. Analysis of Oct-2 expression in primary Hodgkin's lymphoma (HLs) and cell lines derived from it showed that the tumor cells analyzed had high levels of expression and activity, suggesting a common B-cell origin for all types of HLs.

**Synonyms:** OTF2, Otf-2, Oct-2, Octamer-binding protein 2