Aeonian Biotech
Your choice for selective antibodies

Cat nr AE00201 **Product Datasheet**

Mouse Monoclonal Antibody, clone OCT2/2137 to:

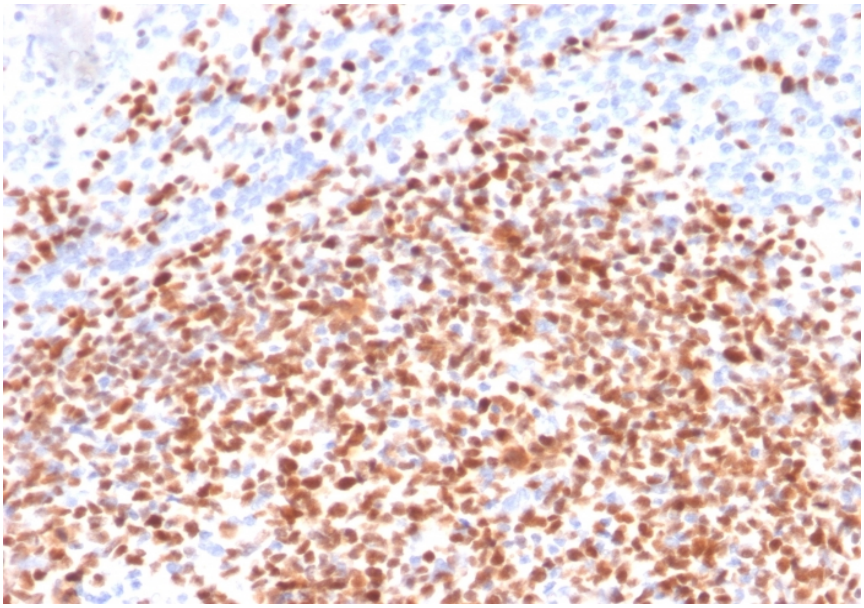
POU2F2, POU class 2 homeobox 2

Lymphoid-restricted immunoglobulin octamer-binding protein NF-A2; Octamer-binding protein 2; Octamer-binding transcription factor 2;POU class 2 homeobox 2; POU domain, class 2, transcription factor 2; Oct-2; OTF-2; OTF2; POU2F2

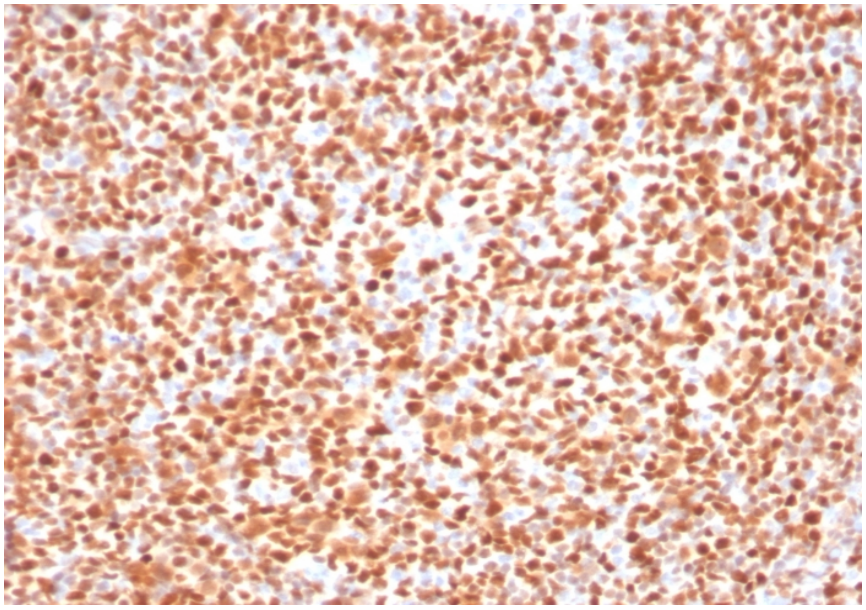
Cellular localization	Nucleus
Official Symbol (Gene)	POU2F2
GeneID	5452
SwissProt	P09086
Confirmed Applications	IHC, PA, WB
Positive controls	lymph node, tonsil, Daudi, Ramos
Aeonian Rating©	82
Purification	By Protein G from bioreactor concentrate
Formulation	☐ 200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug) ☐ 1mg IgG/ml in PBS (100ug or contact us for quotation)
Amount	☐ 20ug ☐ 100ug
Isotype	Mouse IgG1, kappa
Confirmed species reactivity	Human
Immunogen	Recombinant fragment around aa 112-297 of human POU2F2 protein (exact sequence is proprietary)
Epitope	Within aa 112-297 region
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
Product performance	see next pages

Product data:

ImmunoHistoChemistry (IHC):
This product shows nuclear staining of germinal centre B-cells in human lymph node and tonsil sections.
Recommended concentration: 1-3ug/ml

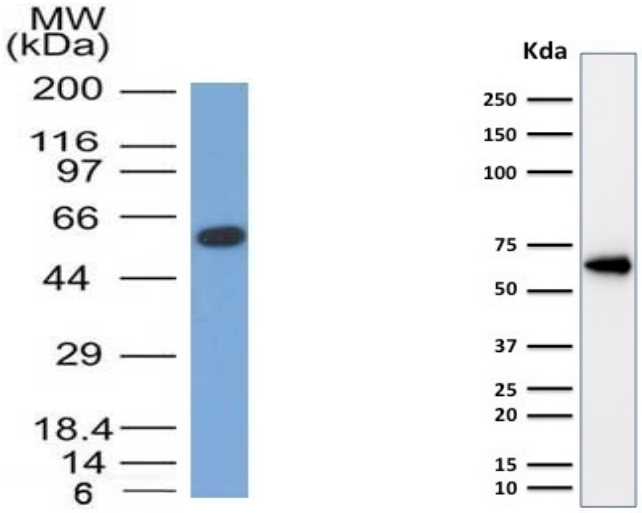


Formaldehyde-fixed, paraffin-embedded human lymph node stained with POU2F2 Mouse Monoclonal Antibody AE00201 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.



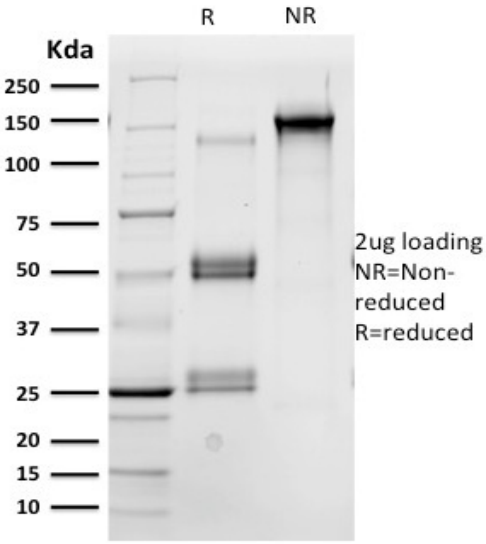
Formaldehyde-fixed, paraffin-embedded human tonsil stained with POU2F2 Mouse Monoclonal Antibody AE00201 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

Western Blot (WB):
This product was successfully used to stain an approx. 62kDa band in lysates of cell lines Daudi and Ramos. Recommended concentration: 0.5-1.5ug/ml



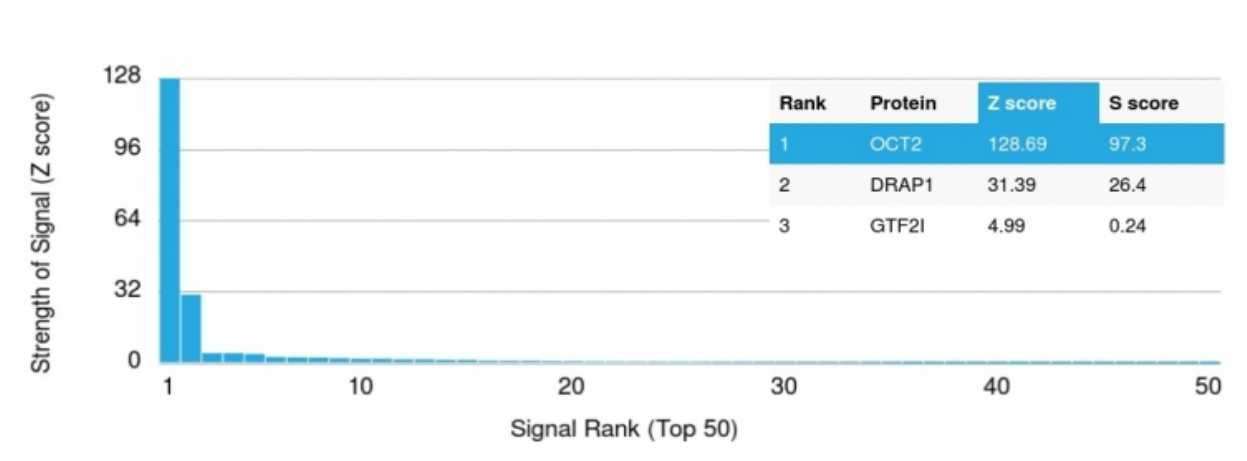
Western Blots of Daudi (left) and Ramos (right) lysates (30ug) stained with POU2F2 Mouse Monoclonal Antibody AE00201 at 1ug/ml (1h at ambient temp). ECL staining by HRP.

SDS-PAGE Analysis of Purified POU2F2 Mouse Monoclonal Antibody AE00201. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00201 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R). Note the different sizes due to PTMs in both light and heavy chains.

Specificity and selectivity of AE00201 to POU2F2 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed no closely related other proteins.



Rank	Protein	Z score	S score
1	OCT2	128.69	97.3
2	DRAP1	31.39	26.4
3	GTF2I	4.99	0.24

Cross-reactivity assessment of POU2F2 Mouse Monoclonal Antibody AE00201 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.
The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).