ADVANCED TARGETING SYSTEMS

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Biotin-labeled Antibody to OX7 (anti-Thy 1.1)
MOUSE MONOCLONAL

Catalog Number:	BT-N08
Quantity:	100 micrograms
Format:	PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative. Sterile-filtered.
Host:	Mouse
Isotype:	IgG_1
Clone:	OX7
Immunogen:	rat Thy 1.1 (CD90)

Background:
OX7, also known as Thy-1, Thy 1.1 or CD90, is expressed on a variety of cell types including thymocytes, neuronal cells, stem cells, T lymphocytes (mouse), immature B cells (rat) and connective tissues. It is involved in regulation of adhesion and signal transduction by T cells. It may contribute to inhibition of proliferation differentiation of hematopoietic stem cells and neuron memory formation in the CNS.

Specificity and Preparation:
This antibody recognizes cells that express Thy-1.1 in rat, mouse, rabbit or guinea pig. Note: Antibody reactivity and working conditions may vary between species. Anti-OX7 was created as a mouse monoclonal generated to rat Thy-1.1 (CD90). It has been conjugated to biotin via an amide bond. The antibody is routinely tested by flow cytometry.

Usage and Storage:
Applications include immunohistochemistry (frozen; 1:2),[2,3] flow cytometry (ATS in-house; 1:100),[4] radioimmunoassay (1:10),[5] immunoblotting (ATS in-house; 1:200). Causes glomerulosclerosis when injected intravenously.[1] Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

References:
1. Narita I, Nakayama H, Goto S, Takeda T, Sakatsume M, Saito A, Nakagawa Y, Arakwa M. (1997) Identification of genes specifically expressed in chronic and progressive glomerulosclerosis. *Kidney Int Suppl* 63:S215-217.
2. Baker-Cairns BJ, Sloan DJ, Broadwell RD, Puklavec M, Charlton HM. (1996) Contributions of donor and host blood vessels in CNS allografts. *Exp Neurol* 142(1):36-46.
3. Fukuda K, Yanagida T, Okuda S, Tamaki K, Ando T, Fujishima J. (1996) Role of endothelin as a mitogen in experimental glomerulonephritis in rats. *Kidney Int* 49(5):1320-1329.
4. Stefanski V, Solomon GF, Kling AS, Thomas J, Plaeger S. (1996) Impact of social confrontation on rat CD4 T cells bearing different CD45R isoforms. *Brain Behav Immun* 10(4):364-379.
5. Weber RJ, Hill JM, Pert CB. (1988) Regional distribution and density of Thy 1.1 in rat brain and its relation to subpopulations of neurons. *J Neuroimmunol* 17(2):137-145.

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