



Recombinant mAb to human MANF (clone 3D4, chicken-mouse IgG2a chimeric antibody)

Catalogue #	342-100
Immunogen:	Human MANF
Immunogen Description:	Recombinant human MANF protein produced using CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line. Immunogen is purified from cell culture supernatant
Alternative Names:	ARMET, ARP
Uniprot ID:	P55145
Clonality:	Mouse monoclonal
Clone:	3D4, chicken-mouse IgG2a chimeric antibody
Class:	mIgG2a
Reactivity:	Human MANF
Application:	ELISA, IF, IHC-C
Protocol:	Conformational antibody, not suitable for Western Blot application. Monoclonal antibody working titer has to be established practically for each particular antigen and assay format
ELISA:	0,02-0,1 µg/ml
IF:	1-20 µg/ml
IHC-C:	5 µg/ml
Purification:	MabSelect affinity chromatography
Buffer:	PBS pH 7.4, with 0.1% sodium azide
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20...-70°C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles

Background:

MANF is a trophic factor for midbrain dopamine neurons in vivo. It prevents the 6-OHDA- induced degeneration of dopamine neurons in rodent models of Parkinson's disease (Lindholm et al., 2008, Voutilainen et al., 2009). When administered after 6-OHDA-lesioning it restores the dopaminergic function and prevents degeneration of dopamine neurons in substantia nigra pars compacta

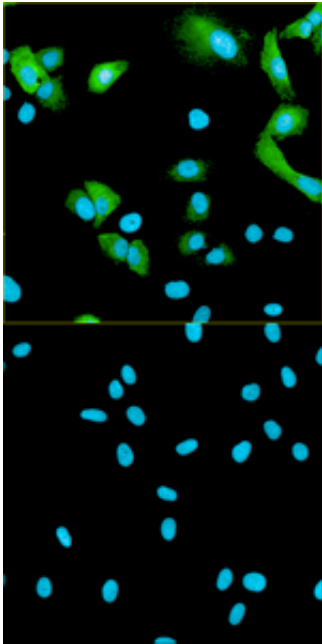
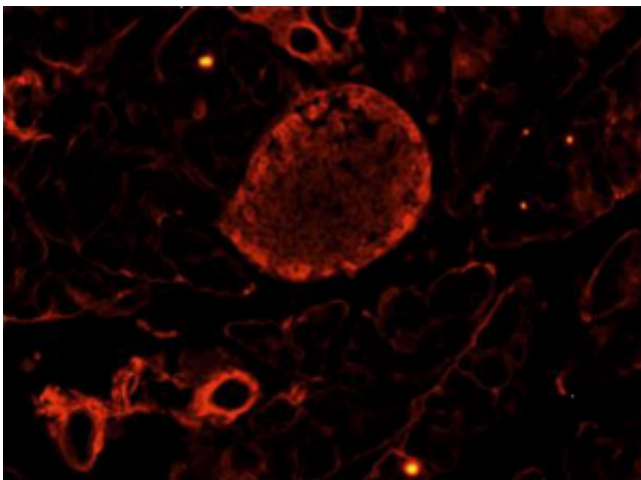


Figure 1. IF testing of anti-MANF monoclonal antibody (342-100). Immunofluorescence detection of human MANF expressed in human U2OS cells by chimeric monoclonal antibody to hMANF (342-100). Anti-hMANF antibody dilution in IF experiment was 1 μ g/ml. Upper panel: MANF-expressing U2OS cells. Lower panel: Negative control (non-transfected cells)

A



B

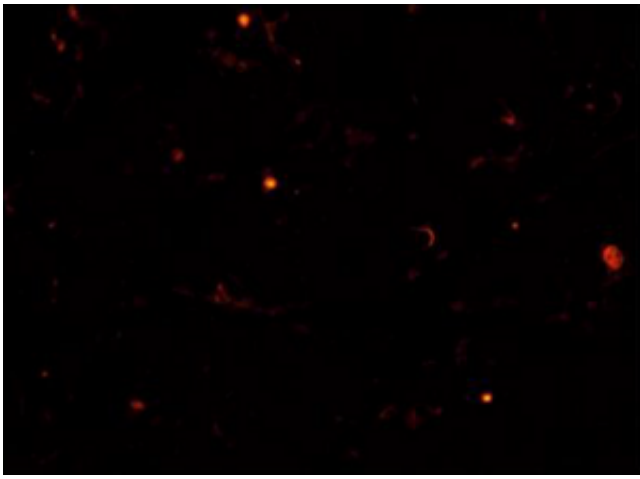


Figure 2: Immunohistochemical analysis of MANF monoclonal antibody (342-100). Analysis was performed using mouse pancreas cryosections. Antibody concentration of 5 $\mu\text{g/ml}$ was used. A. WT mouse pancreas. B. MANF KO mouse pancreas