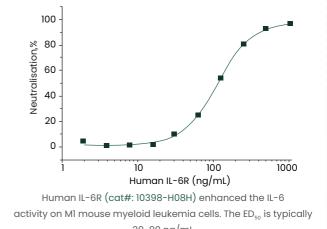
IL-6 is a pleiotropic cytokine. Elevated IL6 is observed in patients with microbial infections and other inflammation conditions. The serum level of IL6 is often correlated with the severity of the inflammation.

The pro-inflammatory function of IL-6 is regulated by a trans-signaling process involving soluble IL-6R (sIL-6R) and gp130 receptor. The production of sIL6R is activated by IL-1beta and TNF-alpha. These two pro-inflammatory cytokines induce the proteolytic cleavage of IL6R by activating ADAM10 and ADAM17.

Unlike most other soluble receptors (e.g. IL-1RA and IL-18BP), sIL-6R is NOT an inhibitor of IL-6. Instead, it activates IL6 signaling by forming a complex with IL6 and gp130.

In addition, IL6 can transduce its signal through membrane-bound IL6R. This signal transduction also requires gp130 to be the co-receptor.



20-80 ng/mL

## Bioactive Recombinant IL-6 from Multiple Species

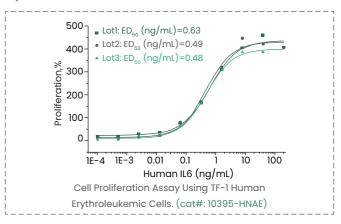
Human IL-6: 10395-HNAE Activity: Bind to Human IL-6R Cell proliferation

Mouse IL-6: 50136-MANE Activity: Cell proliferation Human IL-6: 80076-RNAE Activity: Cell proliferation

Mouse IL-6: 90197-CNAE Activity: Cell proliferation

Sus scrofa (Pig) IL-6: 80076-RNAE

Activity: Bind to Human IL-6R(10398-H08H)

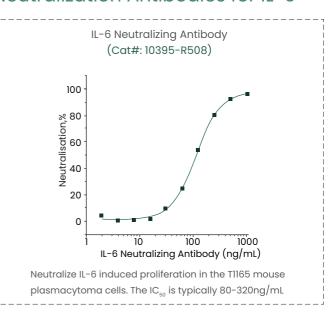


### ELISA Detection Pairs for IL-6

Sino biological has developed high sensitivity ELISA antibody pairs for detection of IL-6 and IL-6R.

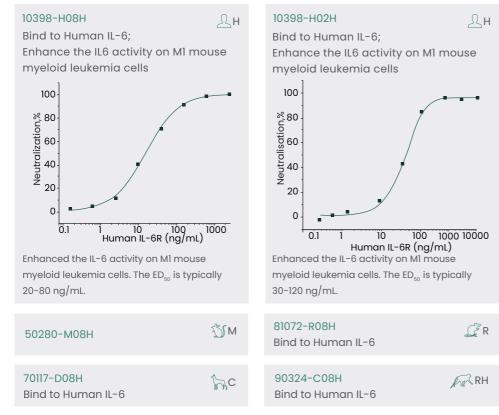
Target	Carture Antibody	Detection Antibody			
IL-6	10395-MM14	10395-MM72			
(ELISA Assay of IL-6					

#### Neutralization Antibodies for IL-6



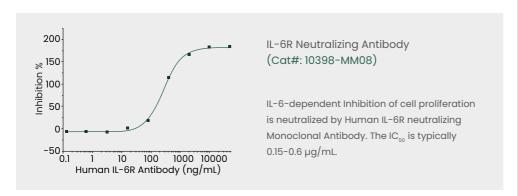
## Recombinant Membrane-bound IL-6 Receptor: IL-6R

IL-6 demonstrates limited cross-species bioactivity. Human IL-6 can bind to both human and mouse IL-6R, but mouse IL-6 can only bind to mouse IL-6R.



Note: H: Human; R: Rat; M: Mouse; C: Canine; Rh: Rhesus

#### Neutralization Antibodies for IL-6R



# Recombinant gp130

Gp130 is a common receptor and signal transducer shared by most IL-6 family cytokines.

Cat#	Species	Expressed Host	Tag	Activity
50135-M02H	Mouse	HEK293 Cells	Fc	Bind to IL-6
50135-M08H	Mouse	HEK293 Cells	His	Bind to mouse IL11Ra; Inhibit the IL-6Rα enhancement of IL-6 activity on M1 mouse myeloid leukemia cell
10974-H03H	Human	HEK293 Cells	Fc & His	Inhibit the IL-6Ra enhancement of IL-6 activity on M1 mouse myeloid leukemia cell
50135-M03C	Mouse	CHO Cells	Fc & His	
50135-M03H	Mouse	HEK293 Cells	Fc & His	
80030-R06H	Rat	HEK293 Cells	Fc & His	
80030-R08H	Rat	HEK293 Cells	His	

