## IVMB0206



## Product Information

<b>Product SKU</b> :	IVMB0206	Clone:	D2E7	Target:	TNF alpha	
Size:	500 µg			<b>lsotype</b> :	Human lgG1κ	
Additional Information						
Reactivity:	Human			Host Species:	Human	
Antibody Type	e: Biosimilar Recomb	Biosimilar Recombinant Human Monoclonal Antibody		Expression Ho	ost: HEK-293 Cells	

## **Immunogen Information**

Background:	Adalimumab is a research-grade monoclonal antibody that works by inactivating tumor			
	necrosis factor-alpha (TNF- $\alpha$ ). TNF- $\alpha$ is a 17.5 kD protein that mediates inflammation and			
	immunity caused by the invasion of viruses, bacteria, and parasites by initiating a cascade			
	of cytokines that increase vascular permeability, thus bringing macrophages and neutrophils			
	to the site of infection. TNF- $\alpha$ secreted by the macrophage causes the blood to clot which			
	provides containment of the infection. TNF- $\alpha$ inactivation has proven to be important in			
	downregulating the inflammatory reactions associated with autoimmune diseases such as			
	rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, moderate to			
	severe chronic psoriasis, and juvenile idiopathic arthritis. Adalimumab blocks the interaction			
	with the p55 and p75 cell surface TNF receptors thus, neutralizing the biological function of			
	TNF. Anti-Human TNF alpha (Adalimumab) utilizes the same variable regions from the			
	therapeutic antibody Adalimumab making it ideal for research projects.			
Endotoxin Level:	< 1.0 EU/mg as determined by the LAL method			
Applications:	В			
Synonyms:	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha			
Antigen Distribution:	TNF- $\alpha$ is secreted by macrophages, monocytes, neutrophils, T cells, B cells, NK cells, LAK cells.			



## Immunogen:

- Human TNF alpha
- Formulation:This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate<br/>buffered saline (150 mM NaCl) PBS pH 7.2 7.4 with no carrier protein, potassium, calcium<br/>or preservatives added. Due to inherent biochemical properties of antibodies, certain<br/>products may be prone to precipitation over time. Precipitation may be removed by aseptic<br/>centrifugation and/or filtration.
- Specificity:This non-therapeutic biosimilar antibody uses the same variable region sequence as the<br/>therapeutic antibody Adalimumab. Clone D2E7 binds to soluble TNF-  $\alpha$ , but not to TNF-  $\beta$ <br/>(lymphotoxin). This product is for research use only.
- Product Preparation:
   Recombinant biosimilar antibodies are manufactured in an animal free facility using onlyin vitroprotein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
- Storage & Handling:Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to<br/>one month. For longer term storage, aseptically aliquot in working volumes without diluting<br/>and store at -80°C.Avoid Repeated Freeze Thaw Cycles.