

## Product datasheet for **TA506443BM**

### **IL1 beta (IL1B) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI3E1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI3E1
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:1000~4000, IHC 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human IL1B(NP_000567) produced in HEK293T cell.
Formulation:	PBS (pH 7.4) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30.6 kDa
Gene Name:	interleukin 1 beta
Database Link:	<a href="#">NP_000567</a> <a href="#">Entrez Gene 3553 Human</a> <a href="#">P01584</a>

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<b>Background:</b>	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008]
<b>Synonyms:</b>	IL-1; IL1-BETA; IL1F2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Alzheimer's disease, Apoptosis, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway, Type I diabetes mellitus

### Product images:

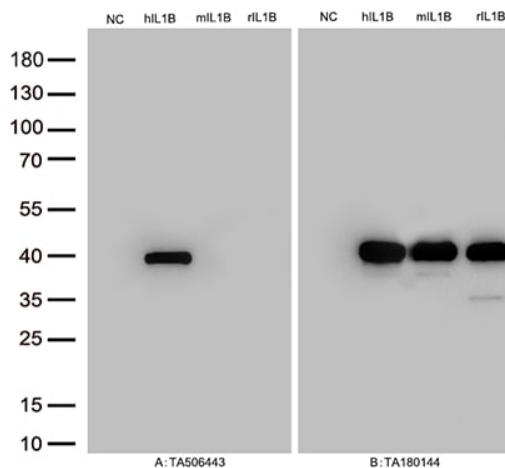
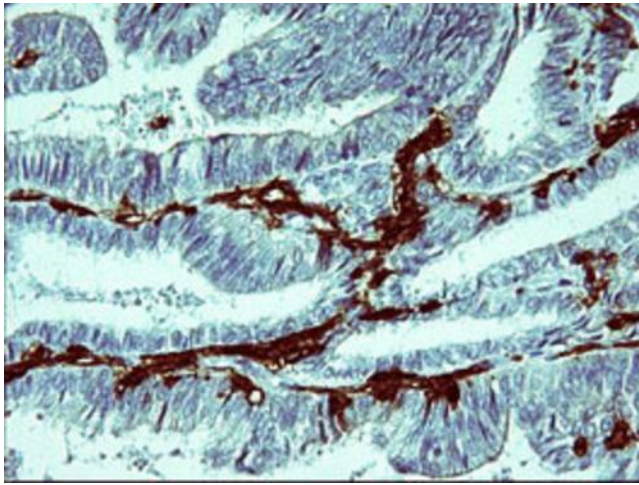
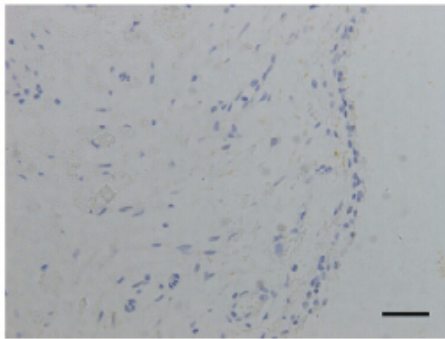


Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human IL1B plasmid ([RC202079], hIL1B), mouse IL1B plasmid ([MR226719], mL1B), rat IL1B plasmid ([RR211023], rIL1B) using anti-IL1B antibody [TA506443] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)

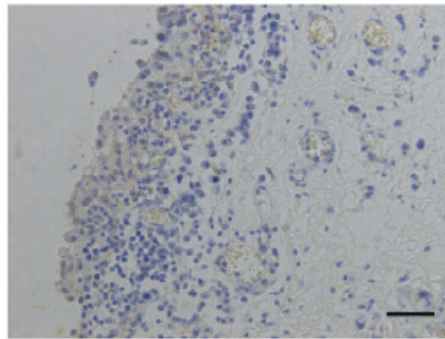


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-IL1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506443])

IL-1 $\beta$ /Hematoxylin

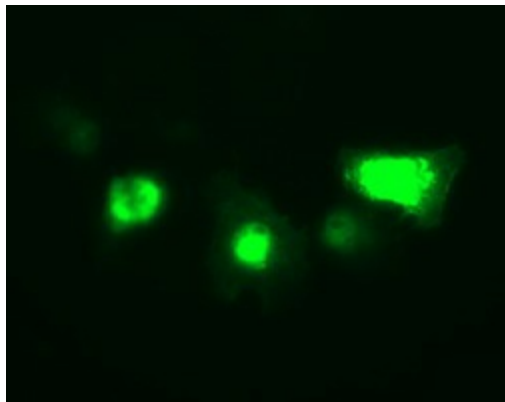


Fracture



OA

Figure from citation: Immunohistochemistry of IL1B protein level by using anti-IL1B antibody in synovial tissues from fracture and OA patients, respectively. Dilution: 1:100 [View Citation](#)



Anti-IL1B mouse monoclonal antibody ([TA506443]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY IL1B ([RC202079]).