e at -20C	IL-6 (D3K2N) Rabbit mAb				
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	y, Not for 03c in Diagnostic i roccut	1103.

Applications: WB, IP	Reactivity: H	: Sensitivity: Endogenous	<b>MW (kDa):</b> 21-28	Source/Isotype: Rabbit IgG	UniProt ID: #P05231	Entrez-Gene Id: 3569		
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		IL-6 (D3K2N) Rabbit mAb recognizes endogenous levels of total IL-6 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant human IL-6 protein.						
Background		Acute phase response is induced by interleukin-6 (IL-6) produced by T cells, macrophages, fibroblasts, endothelial and other cells (1,2). IL-6 induces proliferation or differentiation in many cell types including B cells, thymocytes and T cells. IL-6, in concert with TGF- $\beta$ , is important for developing Th17 responses. IL-6 binds to IL-6R $\alpha$ and through this association induces gp130 homodimerization (1). gp130 homodimerization triggers the Jak/Stat cascade and the SHP-2/Erk MAP kinase cascade (1,3,4). IL-6 also forms a complex with an IL-6R $\alpha$ splice variant that is non-membrane-associated (3). The IL-6/soluble IL- 6R $\alpha$ complex can then activate the gp130 signaling pathway in cells that express gp130 but not IL-6R $\alpha$ (3). Research studies have shown that IL-6, through increasing expression of proangiogenic VEGF, may also contribute to metastatic breast cancer (5).						
Background Refere		1. Heinrich, P.C. et al. (19 2. Heinrich, P.C. et al. (19 3. Jones, S.A. (2005) <i>J Ir.</i> 4. Jenkins, B.J. et al. (200 5. Hong, D.S. et al. (2007	998) Z Ernahrun nmunol 175, 34 04) Mol Cell Bio	gswiss 37 Suppl 1, 43-9 63-8. / 24, 1453-63.	).			
Species Reactivity	S	species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key Cross-Reactivity Key		WB: Western Blotting IP:	Immunoprecipi	tation				
		<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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## IL-6 (D3K2N) Rabbit mAb (#12153) Datasheet Without Images Cell Signaling Technology

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