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Applications: W, W-S, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 21-28	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P05231	Entrez-Gene Id: 3569			
Product Usage Information		<b>Application</b> Western Blotting Simple Western™ Immunoprecipitation			<b>Dilution</b> 1:1000 1:10 - 1:50 1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.							
Specificity/Sens	itivity	IL-6 (D3K2N) Rabbit mAb recognizes endogenous levels of total IL-6 protein.							
Source / Purifica	ation	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 Ref	ferences	1. Heinrich, P.C. et al. (1 2. Heinrich, P.C. et al. (1 3. Jones, S.A. (2005) <i>J Ir</i> 4. Jenkins, B.J. et al. (200 5. Hong, D.S. et al. (200	998) <i>Z Ernahrungs</i> <i>nmunol</i> 175, 3463- 04) <i>Mol Cell Biol</i> 24	<i>swiss</i> 37 Suppl 1, 43-9. 8. 4, 1453-63.					
Species Reactivi	ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Bu	ıffer	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 Ke	у	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation							
Cross-Reactivity	/ Кеу	H: Human							
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