Recombinant DGRmAb®

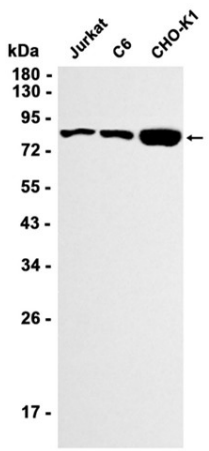
STAT3 (DGR12197) Rabbit mAb (PBS Only)

db12896-PBS **Package : 10μg 100μg**

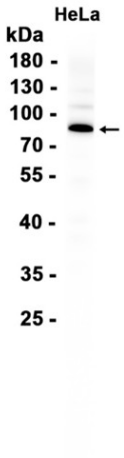
Product Name : STAT3 (DGR12197) Rabbit mAb (PBS Only)
Cat.No.: db12896-PBS
Synonyms : APRF; HIES; ADMIO; ADMIO1
Application : WB, ICC/IF, FC, IP
Reactivity : Human
Host species : Rabbit

Background	The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]
Immunogen	A synthetic peptide of human STAT3
Gene ID	6774
Swiss Prot	P40763
Synonyms	APRF; HIES; ADMIO; ADMIO1
Reactivity	Human
Application	WB, ICC/IF, FC, IP
Calculated MW	88 kDa
Observed MW	88 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR12197

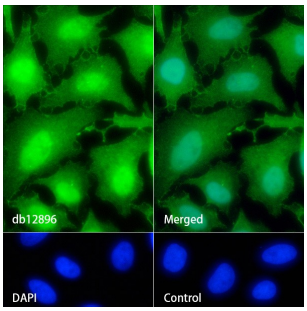
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot analysis of extracts from Jurkat, C6, CHO-K1 cells using db12896 at 1:1000.



Western blot analysis of extracts from HeLa cells using db12896 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling STAT3 with db12896.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12896 (1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.