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Rabbit Anti-CGGBP1 antibody

SL13879R

Product Name:	CGGBP1
Chinese Name:	CGGBinding protein1抗体
Alias:	20 kDa CGG binding protein; 20 kDa CGG-binding protein; CGBP1_HUMAN; CGG binding protein 1; CGG triplet repeat binding protein 1; CGG triplet repeat-binding protein 1; CGG-binding protein 1; CGGBP 1; CGGBP; Cggbp1; OTTHUMP00000213853; OTTHUMP00000213877; p20 CGG binding protein; p20 CGGBP; p20 CGGBP DNA binding protein; p20-CGGBP DNA-binding protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CGGBP1:1-100/167
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Fragile X syndrome is the most frequent form of inherited mental retardation and is the result of transcriptional silencing of the FMR1 (fragile X mental retardation) gene on the X chromosome. The FMR1 gene contains a distinct CpG dinucleotide repeat

	located in the 5'-untranslated region of the gene which, in fragile X syndrome, is substantially amplified and subject to extensive methylation and enhanced transcriptional silencing. CGGBP1 (CGG triplet repeat binding protein 1), also known as CGGBP or p20-CGGBP, is a 167 amino acid nuclear protein that influences FMR1 expression. Highly expressed in thymus, placenta, lymph nodes, cerebral cortex and cerebellum, CGGBP1 binds to the 5' (CGG)n-3' repeat in the promotor of the FMR1 gene and positively regulates expression of the FMR1 protein. Binding of CGGBP1 to the FMR1 promoter is inhibited by cytosine-specific DNA methylation of the protein binding motif, suggesting that CGGBP1 activity is silenced in FMR1-affected individuals. **Function:** Binds to nonmethylated 5'-d(CGG)(n)-3' trinucleotide repeats in the FMR1 promoter. May play a role in regulating FMR1 promoter. **Subcellular Location:** Nucleus. **Tissue Specificity:** Ubiquitous. Highly expressed in placenta, thymus, lymph nodes, cerebellum and cerebral cortex. Low expression in other regions of the brain. **Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR. **SWISS:** Q9UFW8 **Gene ID:** 8545 **Database links:** Entrez Gene: 8545 Human Omim: 603363 Human SwissProt: Q9UFW8 Human Unigene: 444818 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.