

eth_getUncleByBlockNumberAndIndex

Returns information about a uncle of a block given the block number and the uncle index position.

Parameters

- block parameter
- : [Required]
-] A hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- ,safe
- , orfinalized
- . See the[default block parameter](#)
- .
- uncle index position
- : [Required]
-] A hexadecimal equivalent of the integer indicating the uncle's index position.

Returns

A block object, or null when no block was found. The block object returned will consist of the following keys and their values:

- number
- : The block number.Null
- when the returned block is the pending block.
- hash
- : 32 bytes. Hash of the block.Null
- when its pending block.
- parentHash
- : 32 bytes. Hash of the parent block.
- nonce
- : 8 bytes. Hash of the generated proof-of-work.Null
- when the returned block is the pending block.
- sha3Uncles
- : 32 bytes. The SHA3 of the uncles data in the block.
- logsBloom
- : 256 bytes. The Bloom filter for the logs of the block.Null
- when the returned block is the pending block.
- transactionsRoot
- : 32 bytes. The root of the transaction trie of the block.
- stateRoot
- : 32 bytes. The root of the final state trie of the block.
- receiptsRoot
- : 32 bytes. The root of the receipts trie of the block.
- miner
- : 20 bytes. The address of the beneficiary to whom the mining rewards were given.
- difficulty
- : The hexadecimal of the difficulty for this block.
- totalDifficulty
- : The hexadecimal of the total difficulty of the chain until this block.
- extraData
- : The "extra data" field of this block.
- size
- : The hexadecimal of the size of this block in bytes.
- gasLimit
- : Maximum gas allowed in this block.
- gasUsed
- : Total used gas by all transactions in this block.
- timestamp
- : The unix timestamp for when the block was collated.
- uncles
- : (Array). An array of uncle hashes.

note An uncle doesn't contain individual transactions.

Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#).

Request

- cURL
- WSS

```
curl https://optimism-mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d '{"jsonrpc":"2.0","method":"eth_getUncleByBlockNumberAndIndex","params":["0x29c","0x0"],"id":1}' wscat -c wss://optimism-mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc":"2.0","method":"eth_getUncleByBlockNumberAndIndex","params":["0x29c","0x0"],"id":1}'
```

Response

- JSON

[illegible]

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